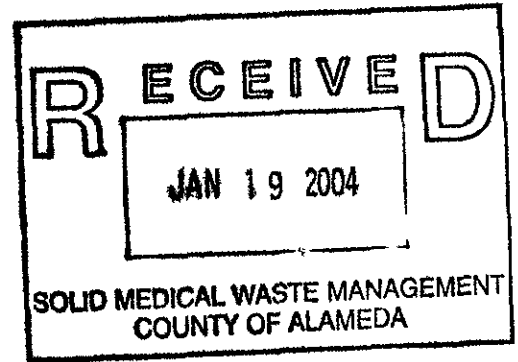




January 5, 2004

Ms. eva chu
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502



Re: **Fourth Quarter 2003 Groundwater Monitoring Report
Former BP Service Station #11126
1700 Powell Street
Emeryville, California
URS Project #38486454**

Dear Ms. chu:

On behalf of the Atlantic Richfield Company (ARCO- a BP affiliated company), URS Corporation (URS) is submitting the *Fourth Quarter 2003 Groundwater Monitoring Report* for the Former BP Service Station #11126, located at 1700 Powell Street, Emeryville, California.

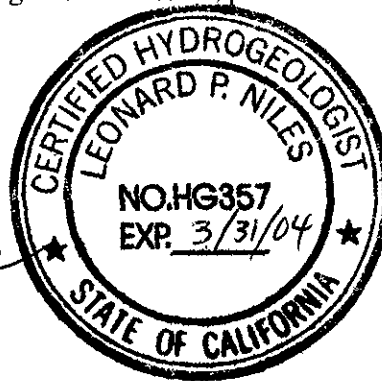
If you have any questions regarding this submission, please call me at (510) 874-1720.

Sincerely,

URS CORPORATION

Leonard P. Niles

Leonard P. Niles, R.G./C.H.G.
Project Manager



Enclosure: Fourth Quarter 2003 Groundwater Monitoring Report

cc: Mr. Paul Supple, ARCO, (electronic copy uploaded to ENFOS)
Ms. Liz Sewell, ConocoPhillips, 76 Broadway, Sacramento, CA 95818

FOURTH QUARTER 2003 GROUNDWATER MONITORING

FORMER BP SERVICE STATION #11126
1700 POWELL STREET
EMERYVILLE, CALIFORNIA

Prepared for
Atlantic Richfield Company

January 5, 2004

URS

URS Corporation
500 12th Street, Suite 200
Oakland, California 94607

38486454



Date: January 5, 2004
Quarter: 4Q 03

BP GEM QUARTERLY GROUNDWATER MONITORING REPORT

Facility No.: 11126 Address: 1700 Powell Street, Emeryville, CA
ARCO Environmental Business Manager: Paul Supple
Consulting Co./Contact Person: URS Corporation / Leonard Niles
Consultant Project No.: 38486454
Primary Agency: Alameda County Health Care Services Agency (ACHSA)

WORK PERFORMED THIS QUARTER (Fourth – 2003):

1. Performed fourth quarter groundwater monitoring event on November 20, 2003.
2. Prepared and submitted fourth quarter 2003 groundwater monitoring report.

WORK PROPOSED FOR NEXT QUARTER (First– 2004):

1. Perform first quarter 2004 groundwater monitoring event.
2. Prepare and submit first quarter 2004 groundwater monitoring report.
3. Implement interim remedial action and subsurface investigation pending approval of the workplan submitted July 11, 2003.

Current Phase of Project: GW monitoring/sampling
Frequency of Groundwater Sampling: Wells MW-1 through MW-9 quarterly
Frequency of Groundwater Monitoring: Quarterly
Is Free Product (FP) Present On-Site: No
Current Remediation Techniques: None
Approximate Depth to Groundwater: 4.48 (MW-8) to 7.02 (MW-4) feet
Groundwater Gradient (direction): Variable from southeast to northwest
Groundwater Gradient (magnitude): 0.014 to 0.040 feet per foot, respectively

DISCUSSION:

TPH-g was detected above laboratory reporting limits in seven of the nine wells sampled at concentrations ranging from 95 µg/L (MW-6) to 40,000 µg/L (MW-9). Benzene was detected above laboratory reporting limits in four of the nine wells sampled at concentrations ranging from 12 µg/L (MW-5) to 6,800 µg/L (MW-9). MTBE was detected above laboratory reporting limits in all of the wells sampled at concentrations ranging from 12 µg/L (MW-5) to 18,000 µg/L (MW-2). TPH-d and T.O.G were only analyzed in well MW-3. TPH-d was detected above laboratory reporting limits at a concentration of 1,200 µg/L. T.O.G. was not detected above laboratory reporting limits in this sample. Groundwater samples collected during this event were also analyzed for fuel oxygenates, including ethanol, by EPA Method 8260B. Other than MTBE, the only other fuel oxygenates detected were Ethanol, TBA, and TAME. Ethanol was detected and confirmed above laboratory reporting limits in well MW-1 at a concentration of 1,800 µg/L. TBA was detected above laboratory reporting limits in four wells at concentrations ranging from 1,300 µg/L (MW-7) to 48,000 µg/L (MW-2). TAME was detected above laboratory reporting limits

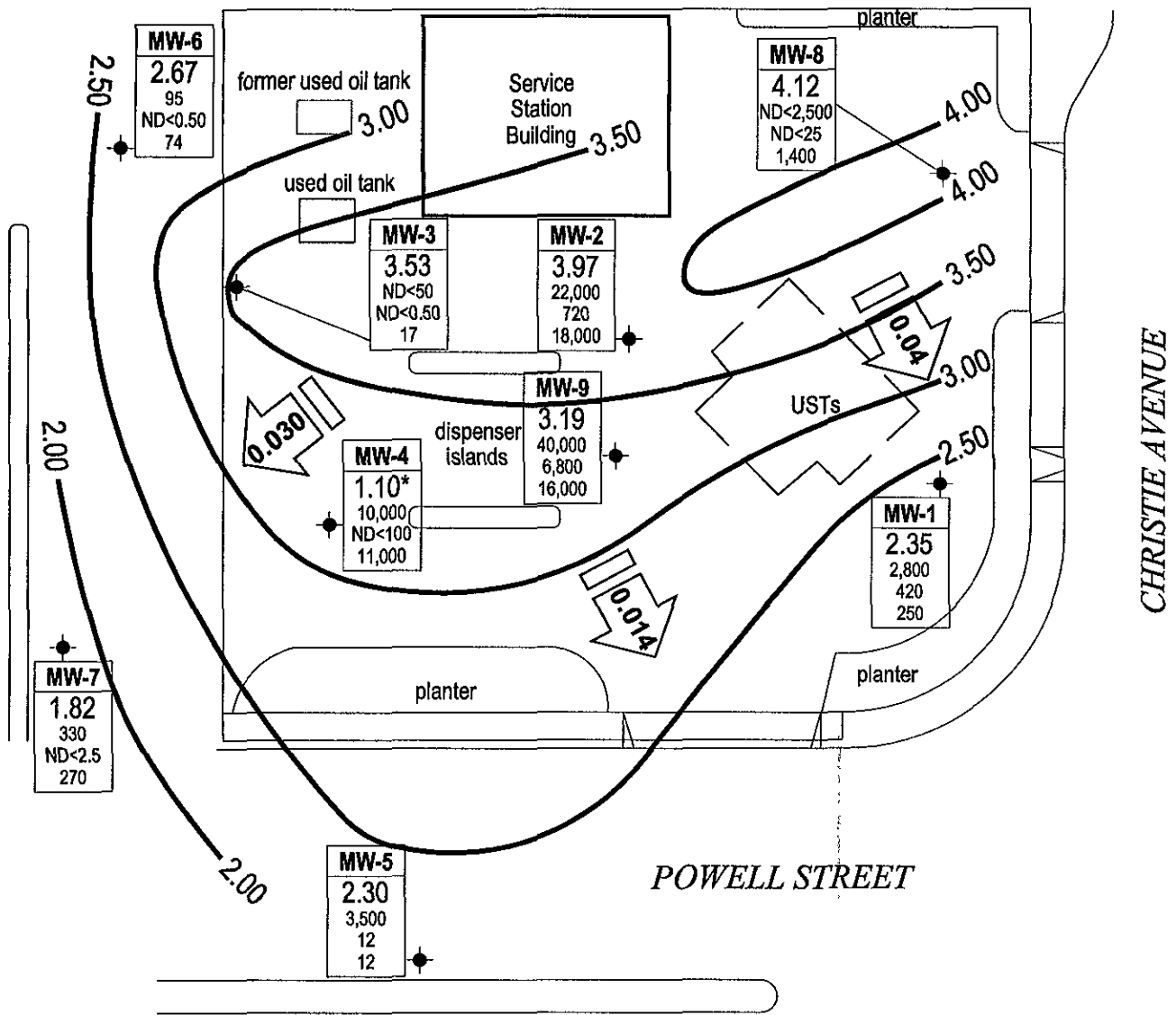


in five wells at concentrations ranging from 1.4 µg/L (MW-3) to 310 µg/L (MW-4). Since BP did not historically use ethanol in gasoline during its occupancy of the site, the detection of ethanol indicates a post-1994 release. The analytical method used during this sampling event, EPA Method 8260B, resulted in elevated detection limits for TPH-g, BTEX and fuel oxygenates in several samples due to matrix interference from elevated MTBE concentrations.

ATTACHMENTS:

- Figure 1 – Groundwater Elevation Contour and Analytical Summary Map – November 20, 2003
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – Fuel Oxygenate Analytical Data
- Attachment A – Concentration and Water Level Trends (MW-4, MW-2 & MW-9)
- Attachment B – Field Procedures and Field Data Sheets
- Attachment C – Laboratory Procedures, Certified Analytical Reports, and Chain-of-Custody Records
- Attachment D – EDCC Report and EDF/Geowell Submittal Confirmation

X:\b_env\waste\BP_GEM\Sites\Niles_Sites\11126\Reports\Monitoring\Qtr. 4, 2003\Drawings\GWEC-AS_11-20.dwg, 01/12/2004 09:48:27 AM, JKMT, URS



EXPLANATION

- Monitoring well
- 2.50 — Groundwater elevation contour (ft/MSL)
- Well designation
- Groundwater elevation (ft/MSL)
- TPH-g, Benzene and MTBE concentrations in micrograms per liter (µg/L)
- ND< Not detected at or above laboratory reporting limits
- * Not used in contouring
- 0.030 Groundwater flow direction and gradient (ft/MSL)



NOTE: SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FIGURES FACILITY LOCATIONS NOT VERIFIED.



Project No. 38486454
Former BP Service Station #11126
 1700 Powell Street
 Emeryville, California

**GROUNDWATER ELEVATION CONTOUR
 AND ANALYTICAL SUMMARY MAP**
Fourth Quarter 2003 (November 20, 2003)

FIGURE
1

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11126
1700 Powell Street, Emeryville, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB
MW-1	11/4/1992	7.76	4.96	---	2.80	5300	---	1100	480	ND<0.5	1500	---	(k)	---	---	PACE
MW-1	10/12/1993	7.76	5.26	---	2.50	3600	---	970	71	100	550	6111	(k)	---	---	PACE
MW-1	2/15/1994	7.76	4.98	---	2.78	17000	---	4200	510	360	1600	5495	(k)	---	3.9	PACE
MW-1	5/11/1994	7.76	4.55	---	3.21	5500	---	2900	37	56	64	705	(k)	---	8.0	PACE
MW-1	8/1/1994	7.76	5.51	---	2.25	15000	---	3600	740	510	2800	9718	(d)(k)	---	2.9	PACE
QC-1 (e)	8/1/1994	---	---	---	---	16000	---	3600	750	510	2800	9800	(d)	---	---	PACE
MW-1	10/18/1994	7.76	5.11	---	2.65	16000	---	1800	61	160	890	15668	(k)	---	2.9	PACE
QC-1 (e)	10/18/1994	---	---	---	---	16000	---	1900	64	170	950	---	---	---	---	PACE
MW-1	1/13/1995	7.76	3.05	---	4.71	220	---	7	ND<0.5	1	23	---	---	---	6.6	ATI
QC-1 (e)	1/13/1995	---	---	---	---	590	---	88	0.7	ND<0.5	55	---	---	---	---	ATI
MW-1	4/13/1995	7.76	3.84	---	3.92	9300	---	4000	300	200	950	---	---	---	7.7	ATI
MW-1	7/11/1995	7.76	3.60	---	4.16	15000	---	2200	84	ND<25	2500	---	---	---	8.8	ATI
MW-1	11/2/1995	7.76	4.58	---	3.18	19000	---	920	ND<100	ND<100	430	52000	---	---	7.3	ATI
MW-1	2/5/1996	7.76	4.43	---	3.33	4600	---	1400	330	54	247	8700	---	---	3.2	SPL
MW-1	4/24/1996	7.76	4.00	---	3.76	2000	---	510	33	61	228	4500	---	---	7.5	SPL
MW-1	7/15/1996	7.76	4.30	---	3.46	---	---	---	---	---	---	---	---	---	---	---
MW-1	7/16/1996	7.76	---	---	---	12000	---	2800	170	390	1630	64000	---	---	7.9	SPL
QC-1 (e)	7/16/1996	---	---	---	---	12000	---	2800	160	390	1610	63000	---	---	---	SPL
MW-1	7/30/1996	7.76	4.64	---	3.12	---	---	---	---	---	---	---	---	---	---	---
MW-1	8/12/1996	7.76	---	---	---	11000	---	2500	160	ND<10	1740	440000	---	---	7.0	SPL
MW-1	11/4/1996	7.76	5.98	---	1.78	---	---	---	---	---	---	---	---	---	---	---
MW-1	11/5/1996	7.76	---	---	---	53000	---	1300	43	100	349	42000/190000	(f)	---	6.6	SPL
MW-1	5/17/1997	7.76	4.65	---	3.11	52000	---	1958	55	305	1216	140198	---	---	5.7	SPL
MW-1	8/11/1997	7.76	4.90	---	2.86	25000	---	540	6.7	ND<5.0	57	360000	---	---	7.9	SPL
MW-1	11/17/1997	7.76	6.12	---	1.64	93000	---	1200	31	180	40	400000	---	---	7.6	SPL
MW-1	1/29/1998	7.76	4.90	---	2.86	4800	---	320	24	52	19.9	ND<50	---	---	6.6	SPL
MW-1	6/22/1998	7.76	4.62	---	3.14	63000	---	180	ND<5.0	15	69	57000	---	---	6.0	---
MW-1	12/30/1998	7.76	5.41	---	2.35	22000	---	2500	24	120	400	15000/13000	(f)	---	---	SPL
MW-1	3/9/1999	7.76	3.40	---	4.36	16000	---	2000	84	290	510	13000	---	---	---	SPL
MW-1	6/23/1999	7.76	4.60	---	3.16	9600	---	4500	21	160	260	24000	---	---	---	SPL
MW-1	9/23/1999	7.76	4.21	---	3.55	3800	---	1600	32	150	240	7100	---	---	---	SPL
MW-1	12/28/1999	7.76	4.10	---	3.66	3400	---	ND<2200	17	53	130	5500	---	---	---	PACE
MW-1	3/22/2000	7.76	5.51	---	2.25	6400	---	1100	45	190	330	4900	---	---	---	PACE
MW-1	5/26/2000	7.76	4.79	---	2.97	110000	---	700	44	140	250	320000	---	---	---	PACE
MW-1	9/6/2000	7.76	5.19	---	2.57	5600	---	1000	13	57	90	19000	---	---	---	PACE
MW-1	9/15/2000	7.76	5.73	---	2.03	---	---	---	---	---	---	---	---	---	---	---

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11126
1700 Powell Street, Emeryville, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB
MW-1	12/11/2000	7.76	5.82	---	1.94	5500	---	1160	47.1	155	292	3900	---	---	---	PACE
MW-1 (h)	3/29/2001	7.76	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	6/27/2001	7.76	5.49	---	2.27	6100	---	1200	12.9	17.3	77.9	1780	---	---	---	PACE
MW-1	9/19/2001	7.76	6.19	---	1.57	1800	---	102	ND<12.5	ND<12.5	ND<37.5	1090	---	---	---	PACE
MW-1	12/28/2001	7.76	5.27	---	2.49	4000	---	540	11.8	20.4	64.6	1120	---	---	---	PACE
MW-1	3/12/2002	7.76	5.68	---	2.08	3700	---	491	8.39	12.4	27.3	1020	---	---	---	PACE
MW-1	6/13/2002*	7.76	5.54	---	2.22	1900	---	255	ND<12.5	ND<12.5	ND<25	6490	---	---	---	PACE
MW-1	9/6/2002	7.76	5.56	---	2.20	1100	---	170	5.1	2.2	20	550	---	---	---	SEQ
MW-1 (o)	12/13/2002	7.76	5.45	---	2.31	2700	---	610	10	18	67	470	---	---	---	SEQ
MW-1 (p)	2/19/2003	7.76	3.00	---	4.76	1500	---	180	ND<5.0	ND<5.0	15	610	---	---	---	SEQ
MW-1	6/6/2003	7.76	5.52	---	2.24	4600	---	620	ND<25	ND<25	55	1400	---	---	---	SEQ
MW-1	8/7/2003	7.76	5.55	---	2.21	2000	---	290	ND<5.0	ND<5.0	15	920	---	---	---	SEQ
MW-1	11/20/2003	7.76	5.41	---	2.35	2800	---	420	11	11	53	250	---	---	---	SEQ

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11126
1700 Powell Street, Emeryville, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MIIBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB	
MW-2	11/4/1992	8.56	5.88	---	2.68	12000	---	3900	1300	ND<0.5	2300	---	(k)	---	---	---	PACE
QC-1 (e)	11/4/1992	---	---	---	---	12000	---	3200	980	ND<0.5	1900	---	---	---	---	---	PACE
MW-2	10/12/1993	8.56	6.29	---	2.27	4500	---	3400	180	230	940	442	(k)	---	---	---	PACE
MW-2	2/15/1994	8.56	5.56	---	3.00	2000	---	430	270	28	390	127	(k)	---	---	4.0	PACE
QC-1 (e)	2/15/1994	---	---	---	---	1800	---	290	160	14	250	---	---	---	---	---	PACE
MW-2	5/11/1994	8.56	5.17	---	3.39	14000	---	3900	1200	440	1900	953	(k)	---	---	8.9	PACE
QC-1 (e)	5/11/1994	---	---	---	---	15000	---	5600	1500	470	2000	740	(d)	---	---	---	PACE
MW-2	8/1/1994	8.56	5.43	---	3.13	8200	---	3000	420	230	680	1676	(k)	---	---	2.6	PACE
MW-2	10/18/1994	8.56	5.71	---	2.85	9000	---	2000	140	150	420	2417	(k)	---	---	7.2	PACE
MW-2	1/13/1995	8.56	4.67	---	3.89	7900	---	2200	42	ND<5	770	---	---	---	---	6.8	ATI
MW-2	4/13/1995	8.56	4.37	---	4.19	33000	---	8000	2500	1100	6600	---	---	---	---	7.5	ATI
QC-1 (e)	4/13/1995	---	---	---	---	25000	---	6500	1500	110	5300	---	---	---	---	---	ATI
MW-2	7/11/1995	8.56	4.51	---	4.05	19000	---	3300	99	7.5	4600	---	---	---	---	7.8	ATI
QC-1 (e)	7/11/1995	---	---	---	---	28000	---	6800	1000	900	4900	---	---	---	---	---	ATI
MW-2	11/2/1995	8.56	5.55	---	3.01	20000	---	3800	1200	570	2700	15000	---	---	---	7.3	ATI
QC-1 (e)	11/2/1995	---	---	---	---	22000	---	4000	1200	600	2700	19000	---	---	---	---	ATI
MW-2	2/5/1996	8.56	5.10	---	3.46	1200	---	320	220	26	187	99	---	---	---	2.2	SPL
QC-1 (e)	2/5/1996	---	---	---	---	910	---	290	180	19	137	93	---	---	---	---	SPL
MW-2	4/24/1996	8.56	4.95	---	3.61	ND<500	---	70	22	ND<10	61	ND<50	---	---	---	7.0	SPL
QC-1 (e)	4/24/1996	---	---	---	---	ND<500	---	100	30	ND<10	71	ND<100	---	---	---	---	SPL
MW-2	7/15/1996	8.56	5.40	---	3.16	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	7/16/1996	8.56	---	---	---	12000	---	3300	1400	250	2610	1400	---	---	---	7.8	SPL
MW-2	7/30/1996	8.56	5.44	---	3.12	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	11/4/1996	8.56	7.06	---	1.50	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	11/5/1996	8.56	---	---	---	7200	---	1400	230	38	2110	1100	---	---	---	7.4	SPL
QC-1 (e)	11/5/1996	---	---	---	---	9200	---	1300	170	ND<25	2240	1100	---	---	---	---	SPL
MW-2	5/17/1997	8.56	5.77	---	2.79	570	---	42	ND<5.0	5.0	60	210	---	---	---	6.9	SPL
MW-2	8/11/1997	8.56	5.71	---	2.85	6300	---	1800	130	86	397	2400	---	---	---	8.5	SPL
MW-2	11/17/1997	8.56	6.91	---	1.65	2400	---	220	30	33	259	130	---	---	---	7.9	SPL
MW-2	1/29/1998	8.56	4.61	---	3.95	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	6.2	SPL
MW-2	6/22/1998	8.56	4.80	---	3.76	4200	---	640	150	120	650	560	---	---	---	5.4	SPL
MW-2	12/30/1998	8.56	5.21	---	3.35	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	6/23/1999	8.56	5.30	---	3.26	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	9/23/1999	8.56	4.75	---	3.81	3800	---	760	19	210	960	910	---	---	---	---	SPL
MW-2	12/28/1999	8.56	4.51	---	4.05	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	3/22/2000	8.56	4.21	---	4.35	2500	---	780	17	44	270	2800	---	---	---	---	PACE
MW-2	5/26/2000	8.56	4.66	---	3.90	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	9/6/2000	8.56	4.71	---	3.85	3700	---	1200	5.5	12	170	12000	---	---	---	---	PACE
MW-2	9/15/2000	8.56	4.74	---	3.82	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	12/11/2000	8.56	4.79	---	3.77	---	---	---	---	---	---	---	---	---	---	---	---
MW-2 (h)	3/29/2001	8.56	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11126
1700 Powell Street, Emeryville, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB
MW-2 (j)	6/27/2001	8.56	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2 (j)	9/19/2001	8.56	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2 (j)	12/28/2001	8.56	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	3/12/2002	8.56	4.25	---	4.31	26000	---	1160	4.39	61.1	171	37300	---	---	---	PACE
MW-2	6/13/2002*	8.56	4.94	---	3.62	18000	---	578	ND<50	ND<50	ND<100	84600	---	---	---	PACE
MW-2	9/6/2002	8.56	5.23	---	3.33	26000	---	440	ND<50	ND<50	ND<50	45000	---	---	---	SEQ
MW-2 (a)	12/13/2002	8.56	4.94	---	3.62	69000	---	1200	ND<500	ND<500	ND<500	98000	---	---	---	SEQ
MW-2 (p)	2/19/2003	8.56	4.14	---	4.42	78000	---	1100	ND<500	ND<500	ND<500	81000	---	---	---	SEQ
MW-2	6/6/2003	8.56	4.66	---	3.90	120000	---	1100	ND<1000	ND<1000	ND<1000	72000	---	---	---	SEQ
MW-2	8/7/2003	8.56	4.90	Sheen	3.66	71000	---	590	ND<500	ND<500	ND<500	83000	---	---	---	SEQ
MW-2	11/20/2003	8.56	4.59	---	3.97	22000	---	720	ND<100	ND<100	ND<100	18000	---	---	---	SEQ

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11126
1700 Powell Street, Emeryville, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB
MW-3	11/4/92	8.25	6.38	---	1.87	200	690	1.6	ND<0.5	ND<0.5	1.1	---	(k) ND<5000	ND	---	PACE
MW-3	10/12/93	8.25	5.84	---	2.41	270	2100	5.0	0.7	ND<0.5	2.6	96.3	(k) ND<5000	ND	---	PACE
QC-1 (e)	10/12/93	---	---	---	---	150	---	5.6	0.6	ND<0.5	1.6	---	---	---	---	PACE
MW-3	2/15/94	8.25	6.60	---	1.65	140	2.3	5.7	ND<0.5	ND<0.5	ND<0.5	30.1	(k) 90	ND	3.9	PACE
MW-3	5/11/94	8.25	5.86	---	2.39	190	2500	2.7	1.9	ND<0.5	1.9	51	(d)(k)ND<5000	ND	9.2	PACE
MW-3	8/1/94	8.25	6.13	---	2.12	120	1300	1.3	ND<0.5	0.5	1.1	17.6	(k) ND<5000	ND	2.9	PACE
MW-3	10/18/94	8.25	6.39	---	1.86	100	2200	2.3	ND<0.5	ND<0.5	ND<0.5	21	(k) ND<5000	ND	3.6	PACE
MW-3	1/13/95	8.25	5.47	---	2.78	ND<50	970	0.8	ND<0.5	ND<0.5	ND<1	---	---	ND	7.7	ATI
MW-3	4/13/95	8.25	5.17	---	3.08	530	ND<500	8.7	1.9	ND<0.5	3.9	---	2100	ND	8.4	ATI
MW-3	7/11/95	8.25	5.37	---	2.88	78	2100	0.57	ND<0.50	ND<0.50	ND<1.0	---	1900	ND	8.3	ATI
MW-3	11/2/95	8.25	6.29	---	1.96	250	2000	0.73	ND<0.50	ND<0.50	1.8	270	1400	ND	8.3	ATI
MW-3	2/5/96	8.25	5.80	---	2.45	ND<50	1600	ND<0.5	ND<1	ND<1	2.7	11	9000	ND	3.5	SPL
MW-3	4/24/96	8.25	5.69	---	2.56	ND<50	2800	ND<5	ND<10	ND<10	ND<10	150	6000	ND	8.6	SPL
MW-3	7/15/96	8.25	6.18	---	2.07	ND<250	3700	ND<2.5	ND<5	ND<5	ND<5	ND<50	1000	ND	7.7	SPL
MW-3	7/30/96	8.25	6.04	---	2.21	---	---	---	---	---	---	---	---	---	---	---
MW-3	11/4/96	8.25	7.84	---	0.41	---	---	---	---	---	---	---	---	---	---	---
MW-3	11/5/96	8.25	---	---	---	90	890	ND<0.5	ND<1.0	ND<1.0	ND<1.0	30	2000	ND	6.8	SPL
MW-3	5/17/97	8.25	6.49	---	1.76	ND<50	2100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	52	700	ND	6.3	SPL
MW-3	8/11/97	8.25	6.15	---	2.10	490	1900	ND<2.5	ND<5.0	ND<5.0	ND<5.0	170	ND<5000	ND	7.4	SPL
MW-3	11/17/97	8.25	7.15	---	1.10	120	2500	ND<0.5	ND<1.0	ND<1.0	ND<1.0	46	ND<5000	ND	7.0	SPL
MW-3	1/29/98	8.25	5.10	---	3.15	270	1700	0.53	ND<1.0	ND<1.0	ND<1.0	330	2000	ND	6.4	SPL
MW-3	6/22/98	8.25	5.50	---	2.75	200	2200	ND<0.5	ND<1.0	ND<1.0	ND<1.0	130	ND<5	ND	5.5	SPL
MW-3	12/30/98	8.25	6.68	---	1.57	---	---	---	---	---	---	---	---	---	---	---
MW-3	3/9/99	8.25	5.53	---	2.72	60	840	ND<1.0	ND<1.0	ND<1.0	ND<1.0	19	7600	---	---	SPL
MW-3	6/23/99	8.25	6.60	---	1.65	---	---	---	---	---	---	---	---	---	---	---
MW-3	9/23/99	8.25	6.17	---	2.08	---	---	---	---	---	---	---	---	---	---	---
MW-3	12/28/99	8.25	6.00	---	2.25	---	---	---	---	---	---	---	---	---	---	---
MW-3	3/22/00	8.25	4.77	---	3.48	690	ND<58	4.2	3.1	0.81	2.7	2900	13000	---	---	PACE
MW-3	5/26/00	8.25	5.28	---	2.97	---	---	---	---	---	---	---	---	---	---	---
MW-3	9/15/00	8.25	5.58	---	2.67	---	---	---	---	---	---	---	---	---	---	---
MW-3	12/11/00	8.25	11.74	---	-3.49 (i)	---	---	---	---	---	---	---	---	---	---	---
MW-3	3/29/01	8.25	5.04	---	3.21	650	ND<50	ND<2.5	ND<2.5	ND<2.5	ND<7.5	680	6540	---	---	PACE
MW-3	6/27/01	8.25	5.62	---	2.63	460	690	ND<2.5	ND<2.5	ND<2.5	ND<7.5	560	ND<5000	---	---	PACE
MW-3	9/19/01	8.25	5.80	---	2.45	ND<500	520	ND<5.0	ND<5.0	ND<5.0	ND<15	464	ND<5000	---	---	PACE
MW-3	12/28/01	8.25	4.85	---	3.40	180	550	ND<0.5	ND<0.5	ND<0.5	ND<1.0	180	ND<5000	---	---	PACE
MW-3	3/12/02	8.25	4.39	---	3.86	410	1300	ND<2.5	ND<2.5	ND<2.5	ND<5.0	443	ND<5000	---	---	PACE
MW-3	6/13/2002*	8.25	5.38	---	2.87	ND<250	2600	ND<2.5	ND<2.5	ND<2.5	ND<5.0	395	ND<5000	---	---	PACE
MW-3	9/6/02	8.25	5.68	---	2.57	ND<200	---	ND<2.0	ND<2.0	ND<2.0	ND<2.0	650	---	---	---	SEQ
MW-3 (o)	12/13/02	8.25	5.37	---	2.88	ND<50	980	ND<0.5	ND<0.5	ND<0.5	ND<0.5	60	7000	---	---	SEQ
MW-3 (p)	2/19/03	8.25	4.80	---	3.45	ND<1000	380	ND<10	ND<10	ND<10	ND<10	120	6700	---	---	SEQ
MW-3	6/6/03	8.25	5.13	---	3.12	ND<500	620	ND<5.0	ND<5.0	ND<5.0	ND<5.0	180	7.9	---	---	SEQ
MW-3	8/7/03	8.25	5.43	---	2.82	ND<500	820 (q)	5.7	ND<5.0	ND<5.0	ND<5.0	290	5.4	---	---	SEQ
MW-3	11/20/03	8.25	4.72	---	3.53	ND<50	1200 (q)	ND<0.50	ND<0.50	ND<0.50	ND<0.50	17	ND<4.8	---	---	SEQ

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11126
1700 Powell Street, Emeryville, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB	
MW-4	11/4/1992	8.12	6.66	---	1.46	340	---	4.5	ND<0.5	4.3	ND<0.5	---	(k)	---	---	---	PACE
MW-4	10/12/1993	8.12	6.87	---	1.25	160	---	5.8	1.4	0.8	2.7	261	(k)	---	---	---	PACE
MW-4	2/15/1994	8.12	6.61	---	1.51	110	---	4.4	0.7	ND<0.5	2.5	118	(d)(k)	---	---	4.3	PACE
MW-4	5/11/1994	8.12	5.89	---	2.23	120	---	0.5	0.8	ND<0.5	ND<0.5	137	(d)(k)	---	---	9.3	PACE
MW-4	8/1/1994	8.12	6.87	---	1.25	140	---	0.7	2.0	5.2	15	138	(k)	---	---	3.3	PACE
MW-4	10/18/1994	8.12	6.62	---	1.50	140	---	3.5	ND<0.5	0.5	ND<0.5	197	(k)	---	---	3.0	PACE
MW-4	1/13/1995	8.12	7.27	---	0.85	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---	7.9	ATI
MW-4	4/13/1995	8.12	6.51	---	1.61	73	---	1.2	ND<0.5	ND<0.5	ND<1	---	---	---	---	9.9	ATI
MW-4	7/11/1995	8.12	6.21	---	1.91	82	---	0.57	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	7.2	ATI
MW-4	11/2/1995	8.12	6.78	---	1.34	71	---	1.4	0.96	0.99	2.8	140	---	---	---	8.6	ATI
MW-4	2/5/1996	8.12	6.41	---	1.71	ND<50	---	ND<5	ND<10	ND<10	ND<10	200	---	---	---	4.4	SPL
MW-4	4/24/1996	8.12	6.18	---	1.94	ND<250	---	ND<2.5	ND<5	ND<5	ND<5	510	---	---	---	8.3	SPL
MW-4	7/15/1996	8.12	6.63	---	1.49	ND<50	---	5.7	ND<1	ND<1	ND<1	550	---	---	---	7.4	SPL
MW-4	7/30/1996	8.12	6.34	---	1.78	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	11/4/1996	8.12	8.27	---	-0.15	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	11/5/1996	8.12	---	---	---	460	---	ND<2.5	11	ND<5.0	ND<5.0	620/610	(f)	---	---	7.3	SPL
MW-4	5/17/1997	8.12	7.00	---	1.12	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	8/11/1997	8.12	6.81	---	1.31	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	11/17/1997	8.12	9.19	---	-1.07	840	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	880	---	---	---	7.3	SPL
MW-4	1/29/1998	8.12	7.94	---	0.18	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	6/22/1998	8.12	7.49	---	0.63	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	12/30/1998	8.12	8.21	---	-0.09	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	3/9/1999	8.12	7.70	---	0.42	1200	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	2000	---	---	---	---	SPL
MW-4	6/23/1999	8.12	8.81	---	-0.69	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	9/23/1999	8.12	8.32	---	-0.20	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	12/28/1999	8.12	8.21	---	-0.09	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	3/22/2000	8.12	6.74	---	1.38	910	---	ND<0.5	ND<0.5	0.54	1.7	3800	---	---	---	---	PACE
MW-4	5/26/2000	8.12	5.13	---	2.99	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	9/15/2000	8.12	8.20	---	-0.08	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	12/11/2000	8.12	8.31	---	-0.19	---	---	---	---	---	---	---	---	---	---	---	---
MW-4 (h)	3/29/2001	8.12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	6/27/2001	8.12	7.57	---	0.55	2800	---	18.9	ND<2.5	ND<2.5	ND<7.5	4220	---	---	---	---	PACE
MW-4	9/19/2001	8.12	7.87	---	0.25	2500	---	ND<5.0	ND<5.0	ND<5.0	ND<15	3340	---	---	---	---	PACE
MW-4	12/28/2001	8.12	7.80	---	0.32	4400	---	ND<5.0	ND<5.0	ND<5.0	ND<10	5330	---	---	---	---	PACE
MW-4	3/12/2002	8.12	4.53	---	3.59	6400	---	71.5	ND<5.0	ND<5.0	ND<10	8440	---	---	---	---	PACE
MW-4	6/13/2002*	8.12	6.21	---	1.91	1800	---	7.5	ND<5.0	5.03	13.1	6870	---	---	---	---	PACE
MW-4	9/6/2002	8.12	7.78	---	0.34	ND<2000	---	ND<20	ND<20	ND<20	ND<20	9600	---	---	---	---	SEQ
MW-4 (o)	12/13/2002	8.12	7.87	---	0.25	5600	---	ND<50	ND<50	ND<50	ND<50	8600	---	---	---	---	SEQ
MW-4 (p)	2/19/2003	8.12	4.84	---	3.28	ND<10000	---	ND<100	ND<100	ND<100	ND<100	8000	---	---	---	---	SEQ
MW-4	6/6/2003	8.12	7.98	---	0.14	13000	---	ND<50	ND<50	ND<50	ND<50	6800	---	---	---	---	SEQ
MW-4	8/7/2003	8.12	7.24	---	0.88	6200	---	ND<50	ND<50	ND<50	ND<50	6600	---	---	---	---	SEQ
MW-4	11/20/2003	8.12	7.02	---	1.10	10000	---	ND<100	ND<100	ND<100	ND<100	11000	---	---	---	---	SEQ

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11126
1700 Powell Street, Emeryville, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB		
MW-5	10/12/1993	7.69	6.01	---	1.68	---	---	---	---	---	---	---	(k)	---	---	---	PACE	
MW-5	10/13/1993	7.69	---	---	---	2300	---	160	10	ND<0.5	26	---	(k)	---	---	---	PACE	
MW-5	2/15/1994	7.69	5.74	---	1.95	5100	---	710	16	33	35	153	(d)(k)	---	---	4.0	PACE	
MW-5	5/11/1994	7.69	5.28	---	2.41	11000	---	1100	39	110	57	165	(d)(k)	---	---	8.0	PACE	
MW-5	8/1/1994	7.69	5.84	---	1.85	9000	---	730	35	61	41	196	(d)(k)	---	---	2.6	PACE	
MW-5	10/18/1994	7.69	6.01	---	1.68	7800	---	330	30	27	27	559	(k)	---	---	5.6	PACE	
MW-5	1/13/1995	7.69	4.74	---	2.95	ND<500	---	290	6	ND<5	18	---	---	---	---	6.8	ATI	
MW-5	4/13/1995	7.69	5.50	---	2.19	9100	---	400	15	52	27	---	---	---	---	7.4	ATI	
MW-5	7/11/1995	7.69	5.75	---	1.94	7300	---	390	13	28	23	---	---	---	---	7.2	ATI	
MW-5	11/3/1995	7.69	6.65	---	1.04	7200	---	270	15	38	23	200	---	---	---	8.4	ATI	
MW-5	2/5/1996	7.69	4.83	---	2.86	4600	---	370	15	53	28	ND<50	---	---	---	1.9	SPL	
MW-5	4/24/1996	7.69	6.09	---	1.60	3000	---	180	ND<10	32	14	ND<100	---	---	---	8.1	SPL	
MW-5	7/15/1996	7.69	6.57	---	1.12	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-5	7/16/1996	7.69	---	---	---	ND<50	---	190	ND<10	31	16	ND<100	---	---	---	8.3	SPL	
MW-5	7/30/1996	7.69	5.61	---	2.08	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-5	8/12/1996	7.69	---	---	---	2000	---	150	12	25	18.2	ND<50	---	---	---	7.6	SPL	
MW-5	11/4/1996	7.69	8.25	---	-0.56	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-5	11/5/1996	7.69	---	---	---	5200	---	42	5.5	13	ND<5.0	1700	---	---	---	7.4	SPL	
MW-5	5/17/1997	7.69	6.95	---	0.74	80	---	0.56	ND<1.0	ND<1.0	ND<1.0	46	---	---	---	6.7	SPL	
MW-5	8/11/1997	7.69	6.72	---	0.97	2700	---	20	12	6.7	9.7	1900	---	---	---	8.5	SPL	
MW-5	11/17/1997	7.69	9.49	---	-1.80	8400	---	25	12	8.7	5.4	13000	---	---	---	7.9	SPL	
MW-5	1/29/1998	7.69	7.88	---	-0.19	110000	---	2500	110	180	589	180000	---	---	---	6.8	SPL	
MW-5	6/22/1998	7.69	7.40	---	0.29	4400	---	47	10	29	20.5	47	---	---	---	6.6	SPL	
MW-5	12/30/1998	7.69	6.13	---	1.56	6000	---	18	9.1	22	16	63/44	(f)	---	---	---	SPL	
MW-5	3/9/1999	7.69	4.79	---	2.90	4600	---	8.8	5.5	12	11	24	---	---	---	---	SPL	
MW-5	6/23/1999	7.69	5.95	---	1.74	3400	---	1500	8.9	54	87	7500	---	---	---	---	SPL	
MW-5	9/23/1999	7.69	5.43	---	2.26	2600	---	510	14	140	650	580	---	---	---	---	SPL	
MW-5	12/28/1999	7.69	5.30	---	2.39	3500	---	900	18	57	140	4800	---	---	---	---	PACE	
MW-5 (h)	3/22/2000	7.69	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-5 (h)	5/26/2000	7.69	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-5 (h)	9/6/2000	7.69	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-5 (h)	9/15/2000	7.69	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-5 (h)	12/11/2000	7.69	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-5 (h)	3/29/2001	7.69	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-5 (j)	6/27/2001	7.69	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-5 (j)	9/19/2001	7.69	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-5	12/28/2001	7.69	4.65	---	3.04	4600	---	19.9	24.6	16.2	57	72.3	---	---	---	---	PACE	
MW-5	3/12/2002	7.69	5.35	---	2.34	5100	---	45.4	13.7	22	38.9	31.6	---	---	---	---	PACE	
MW-5	6/13/2002	7.69	5.34	---	2.35	2900	---	31.8	ND<12.5	ND<12.5	ND<25	616	---	---	---	---	PACE	
MW-5	9/6/2002	7.69	5.46	---	2.23	3400	---	23	5.5	ND<5.0	11	230	---	---	---	---	SEQ	
MW-5 (o)	12/13/2002	7.69	5.47	---	2.22	2500	---	12	9.3	4.6	8.8	110	---	---	---	---	SEQ	
MW-5 (p)	2/19/2003	7.69	5.29	---	2.40	2800	---	11	5.4	9.7	12	6.4	---	---	---	---	SEQ	
MW-5	6/6/2003	7.69	5.30	---	2.39	3200	---	9.1	ND<5.0	7.6	9.3	ND<5.0	---	---	---	---	SEQ	
MW-5	8/7/2003	7.69	5.33	---	2.36	2200	---	7.3	ND<5.0	ND<5.0	9.1	18	---	---	---	---	SEQ	
MW-5	11/20/2003	7.69	5.39	---	2.30	3500	---	12	5.4	6.4	12	12	---	---	---	---	SEQ	

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11126
1700 Powell Street, Emeryville, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB	
MW-6	10/12/1993	8.52	6.59	---	1.93	63	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	44.4	(k)	---	---	---	PACE
MW-6	2/15/1994	8.52	6.31	---	2.21	68	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	38.1	(d)(k)	---	---	3.1	PACE
MW-6	5/11/1994	8.52	6.15	---	2.37	68	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	48.5	(d)(k)	---	---	8.7	PACE
MW-6	8/1/1994	8.52	6.46	---	2.06	91	---	ND<0.5	ND<0.5	ND<0.5	0.6	59.6	(k)	---	---	2.4	PACE
MW-6	10/18/1994	8.52	6.72	---	1.80	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	84.6	(k)	---	---	6.0	PACE
MW-6	1/13/1995	8.52	5.95	---	2.57	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---	7.0	ATI
MW-6	4/13/1995	8.52	5.44	---	3.08	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---	8.5	ATI
MW-6	7/11/1995	8.52	5.68	---	2.84	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	8.4	ATI
MW-6	11/2/1995	8.52	6.57	---	1.95	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	35	---	---	---	8.3	ATI
MW-6	2/5/1996	8.52	6.27	---	2.25	ND<50	---	ND<5	ND<10	ND<10	ND<10	ND<100	---	---	---	2.2	SPL
MW-6	4/24/1996	8.52	5.95	---	2.57	ND<250	---	ND<2.5	ND<5	ND<5	ND<5	62	---	---	---	8.0	SPL
MW-6	7/15/1996	8.52	6.39	---	2.13	ND<250	---	ND<2.5	ND<5	ND<5	ND<5	ND<50	---	---	---	8.0	SPL
MW-6	7/30/1996	8.52	6.44	---	2.08	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	11/4/1996	8.52	8.05	---	0.47	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	11/5/1996	8.52	---	---	---	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	7.3	SPL
MW-6	5/17/1997	8.52	6.75	---	1.77	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	8/11/1997	8.52	6.48	---	2.04	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	11/17/1997	8.52	9.27	---	-0.75	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	7.7	SPL
MW-6	1/29/1998	8.52	7.98	---	0.54	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	6/22/1998	8.52	7.68	---	0.84	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	12/30/1998	8.52	6.98	---	1.54	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	3/9/1999	8.52	5.90	---	2.62	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	6/23/1999	8.52	6.93	---	1.59	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	9/23/1999	8.52	6.45	---	2.07	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	12/28/1999	8.52	6.33	---	2.19	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	3/22/2000	8.52	5.15	---	3.37	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	5/26/2000	8.52	5.72	---	2.80	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	9/15/2000	8.52	6.02	---	2.50	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	12/11/2000	8.52	6.20	---	2.32	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	3/29/2001	8.52	5.34	---	3.18	750	---	ND<2.5	2.91	ND<2.5	11.8	820	---	---	---	---	PACE
MW-6	6/27/2001	8.52	6.00	---	2.52	760	---	32.9	ND<2.5	ND<2.5	ND<7.5	968	---	---	---	---	PACE
MW-6	9/19/2001	8.52	6.22	---	2.30	ND<500	---	ND<5.0	ND<5.0	ND<5.0	ND<15	879	---	---	---	---	PACE
MW-6 (n)	12/28/2001	8.52	4.71	---	3.81	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	3/12/2002	8.52	4.96	---	3.56	ND<500	---	ND<5.0	ND<5.0	ND<5.0	ND<10	244	---	---	---	---	PACE
MW-6	6/13/2002*	8.52	5.78	---	2.74	ND<250	---	ND<2.5	ND<2.5	ND<2.5	ND<5.0	413	---	---	---	---	PACE
MW-6	9/6/2002	8.52	6.14	---	2.38	130	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	240	---	---	---	---	SEQ
MW-6 (o)	12/13/2002	8.52	6.05	---	2.47	140	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	200	---	---	---	---	SEQ
MW-6 (p)	2/19/2003	8.52	5.40	---	3.12	ND<500	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	150	---	---	---	---	SEQ
MW-6	6/6/2003	8.52	5.54	---	2.98	1100	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	140	---	---	---	---	SEQ
MW-6	8/7/2003	8.52	5.94	---	2.58	ND<500	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	160	---	---	---	---	SEQ
MW-6	11/20/2003	8.52	5.85	---	2.67	95	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	74	---	---	---	---	SEQ

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11126
1700 Powell Street, Emeryville, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB	
MW-7	10/12/1993	7.61	6.14	---	1.47	ND<50	---	ND<0.5	ND<0.5	ND<0.5	0.7	ND<5.0	(k)	---	---	---	PACE
MW-7	2/15/1994	7.61	5.88	---	1.73	78	---	ND<0.5	ND<0.5	ND<0.5	0.6	ND<5.0	(k)	---	---	4.0	PACE
MW-7	5/11/1994	7.61	5.76	---	1.85	70	---	ND<0.5	ND<0.5	ND<0.5	0.9	11.5	(k)	---	---	9.1	PACE
MW-7	8/1/1994	7.61	5.97	---	1.64	77	---	ND<0.5	ND<0.5	ND<0.5	0.5	182	(k)	---	---	2.5	PACE
MW-7	10/18/1994	7.61	6.24	---	1.37	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	51.7	(k)	---	---	6.3	PACE
MW-7	1/13/1995	7.61	5.39	---	2.22	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---	8.2	ATI
MW-7	4/13/1995	7.61	5.17	---	2.44	63	---	ND<0.5	ND<0.5	ND<0.5	1.4	---	---	---	---	8.4	ATI
MW-7	7/11/1995	7.61	5.25	---	2.36	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	7.9	ATI
MW-7	11/2/1995	7.61	6.19	---	1.42	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	55	---	---	---	8.0	ATI
MW-7	2/5/1996	7.61	5.69	---	1.92	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	40	---	---	---	1.9	SPL
MW-7	4/24/1996	7.61	5.59	---	2.02	ND<250	---	ND<2.5	ND<5	ND<5	ND<5	53	---	---	---	8.2	SPL
MW-7	7/15/1996	7.61	6.07	---	1.54	ND<250	---	ND<2.5	ND<5	ND<5	ND<5	ND<50	---	---	---	7.8	SPL
MW-7	7/30/1996	7.61	6.04	---	1.57	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	11/4/1996	7.61	7.76	---	-0.15	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	11/5/1996	7.61	---	---	---	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	7.8	SPL
MW-7	5/17/1997	7.61	6.42	---	1.19	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	8/11/1997	7.61	6.06	---	1.55	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	11/17/1997	7.61	9.07	---	-1.46	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	7.1	SPL
MW-7	1/29/1998	7.61	7.44	---	0.17	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	6/22/1998	7.61	7.39	---	0.22	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	12/30/1998	7.61	5.51	---	2.10	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	3/9/1999	7.61	5.57	---	2.04	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	6/23/1999	7.61	6.69	---	0.92	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	9/23/1999	7.61	6.23	---	1.38	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	12/28/1999	7.61	6.08	---	1.53	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	3/22/2000	7.61	4.88	---	2.73	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	5/26/2000	7.61	5.42	---	2.19	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	9/15/2000	7.61	5.79	---	1.82	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	12/11/2000	7.61	5.93	---	1.68	---	---	---	---	---	---	---	---	---	---	---	---
MW-7	3/29/2001	7.61	5.24	---	2.37	600	---	ND<2.5	ND<2.5	ND<2.5	ND<7.5	636	---	---	---	---	PACE
MW-7	6/27/2001	7.61	5.69	---	1.92	590	---	ND<2.5	ND<2.5	ND<2.5	ND<7.5	739	---	---	---	---	PACE
MW-7	9/19/2001	7.61	5.89	---	1.72	560	---	ND<5.0	ND<5.0	ND<5.0	ND<15	1190	---	---	---	---	PACE
MW-7	12/28/2001	7.61	4.53	---	3.08	910	---	22.7	ND<2.5	ND<2.5	ND<5.0	856	---	---	---	---	PACE
MW-7	3/12/2002	7.61	4.71	---	2.90	620	---	ND<2.5	ND<2.5	ND<2.5	ND<5.0	675	---	---	---	---	PACE
MW-7	6/13/2002*	7.61	5.21	---	2.40	860	---	ND<2.5	ND<2.5	ND<2.5	ND<5.0	1470	---	---	---	---	PACE
MW-7	9/6/2002	7.61	5.77	---	1.84	350	---	ND<2.5	ND<2.5	ND<2.5	ND<2.5	690	---	---	---	---	SEQ
MW-7 (o)	12/13/2002	7.61	5.65	---	1.96	1300	---	ND<10	ND<10	ND<10	ND<10	1800	---	---	---	---	SEQ
MW-7 (p)	2/19/2003	7.61	5.07	---	2.54	1700	---	ND<10	ND<10	ND<10	ND<10	1600	---	---	---	---	SEQ
MW-7	6/6/2003	7.61	5.27	---	2.34	1000	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	510	---	---	---	---	SEQ
MW-7	8/7/2003	7.61	5.52	---	2.09	510	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	520	---	---	---	---	SEQ
MW-7	11/20/2003	7.61	5.79	---	1.82	330	---	ND<2.5	ND<2.5	ND<2.5	ND<2.5	270	---	---	---	---	SEQ

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11126
1700 Powell Street, Emeryville, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB	
MW-8	10/12/1993	8.60	5.86	---	2.74	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11.1	(k)	---	---	---	PACE
MW-8	2/15/1994	8.60	5.50	---	3.10	380	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(k)	---	---	---	3.3 PACE
MW-8	5/11/1994	8.60	5.09	---	3.51	330	---	ND<0.5	1.2	ND<0.5	1.9	ND<5.0	(k)	---	---	---	8.5 PACE
MW-8	8/1/1994	8.60	5.20	---	3.40	260	---	ND<0.5	1.2	2.9	5.8	ND<5.0	(k)	---	---	---	2.3 PACE
MW-8	10/18/1994	8.60	5.70	---	2.90	82	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(k)	---	---	---	6.4 PACE
MW-8	1/13/1995	8.60	4.96	---	3.64	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---	---	6.9 ATI
MW-8	4/13/1995	8.60	5.40	---	3.20	270	---	ND<0.5	ND<0.5	ND<0.5	4.4	---	---	---	---	---	8.4 ATI
MW-8	7/11/1995	8.60	6.01	---	2.59	320	---	ND<0.50	ND<0.50	ND<0.50	3.5	---	---	---	---	---	8.0 ATI
MW-8	11/2/1995	8.60	6.81	---	1.79	100	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	---	---	8.7 ATI
MW-8	2/5/1996	8.60	6.12	---	2.48	ND<50	---	ND<5	ND<10	ND<10	ND<10	ND<100	---	---	---	---	1.5 SPL
MW-8	4/24/1996	8.60	6.23	---	2.37	ND<50	---	ND<5	ND<10	ND<10	ND<10	ND<100	---	---	---	---	8.7 SPL
MW-8	7/15/1996	8.60	6.70	---	1.90	ND<250	---	ND<2.5	ND<5	ND<5	ND<5	ND<50	---	---	---	---	8.4 SPL
MW-8	7/30/1996	8.60	6.64	---	1.96	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	11/4/1996	8.60	8.36	---	0.24	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	11/5/1996	8.60	---	---	---	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	---	7.2 SPL
MW-8	5/17/1997	8.60	7.03	---	1.57	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	8/11/1997	8.60	6.05	---	2.55	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	11/17/1997	8.60	9.14	---	-0.54	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	---	7.7 SPL
MW-8	1/29/1998	8.60	7.90	---	0.70	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	6/22/1998	8.60	7.72	---	0.88	---	---	---	---	---	---	---	---	---	---	---	---
MW-8 (h)	12/30/1998	8.60	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-8 (h)	3/9/1999	8.60	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	6/23/1999	8.60	4.70	---	3.90	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	9/23/1999	8.60	4.22	---	4.38	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	12/28/1999	8.60	4.12	---	4.48	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	3/22/2000	8.60	4.71	---	3.89	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	5/26/2000	8.60	4.98	---	3.62	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	9/15/2000	8.60	4.62	---	3.98	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	12/11/2000	8.60	4.77	---	3.83	---	---	---	---	---	---	---	---	---	---	---	---
MW-8 (h)	3/29/2001	8.60	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	6/27/2001	8.60	5.11	---	3.49	570	---	ND<2.5	ND<2.5	2.58	ND<7.5	3.43	---	---	---	---	PACE
MW-8	9/19/2001	8.60	5.00	---	3.60	ND<500	---	ND<5.0	ND<5.0	ND<5.0	ND<15	ND<5.0	---	---	---	---	PACE
MW-8	12/28/2001	8.60	4.15	---	4.45	440	---	ND<0.5	ND<0.5	0.975	ND<1.0	6.27	---	---	---	---	PACE
MW-8	3/12/2002	8.60	4.35	---	4.25	330	---	ND<2.5	ND<2.5	ND<2.5	ND<5.0	8.69	---	---	---	---	PACE
MW-8	6/13/2002*	8.60	5.09	---	3.51	ND<500	---	ND<5.0	ND<5.0	ND<5.0	ND<10	16.4	---	---	---	---	PACE
MW-8	9/6/2002	8.60	5.18	---	3.42	98	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	76	---	---	---	---	SEQ
MW-8 (o)	12/13/2002	8.60	4.84	---	3.76	120	---	ND<0.5	ND<0.5	0.94	0.52	140	---	---	---	---	SEQ
MW-8 (p)	2/19/2003	8.60	4.45	---	4.15	ND<2500	---	ND<25	ND<25	ND<25	ND<25	800	---	---	---	---	SEQ
MW-8	6/6/2003	8.60	5.00	---	3.60	ND<50000	---	ND<500	ND<500	ND<500	ND<500	17000	---	---	---	---	SEQ
MW-8	8/7/2003	8.60	4.84	---	3.76	ND<2500	---	ND<25	ND<25	ND<25	ND<25	2400	---	---	---	---	SEQ
MW-8	11/20/2003	8.60	4.48	---	4.12	ND<2500	---	ND<25	ND<25	ND<25	ND<25	1400	---	---	---	---	SEQ

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11126
1700 Powell Street, Emeryville, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MIIBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB
MW-9	10/12/1993	8.08	5.66	0.08	2.48	---	---	---	---	---	---	---	---	---	---	---
MW-9	2/15/1994	8.08	5.32	0.05	2.80	---	---	---	---	---	---	---	---	---	---	---
MW-9	5/11/1994	8.08	5.57	---	2.51	---	---	---	---	---	---	---	---	---	---	---
MW-9	8/1/1994	8.08	6.25	---	1.83	---	---	---	---	---	---	---	---	---	---	---
MW-9	10/18/1994	8.08	5.59	0.13	2.59	---	---	---	---	---	---	---	---	---	---	---
MW-9	1/13/1995	8.08	4.42	0.14	3.77	---	---	---	---	---	---	---	---	---	---	---
MW-9	4/13/1995	8.08	4.06	0.11	4.10	---	---	---	---	---	---	---	---	---	---	---
MW-9	7/11/1995	8.08	4.21	0.08	3.93	---	---	---	---	---	---	---	---	---	---	---
MW-9	11/2/1995	8.08	5.22	0.05	2.90	---	---	---	---	---	---	---	---	---	---	---
MW-9	2/5/1996	8.08	4.76	0.01	3.33	---	---	---	---	---	---	---	---	---	---	---
MW-9	4/24/1996	8.08	4.62	0.09	3.53	---	---	---	---	---	---	---	---	---	---	---
MW-9	7/15/1996	8.08	5.11	0.04	3.00	---	---	---	---	---	---	---	---	---	---	---
MW-9	7/30/1996	8.08	5.15	---	2.93	---	---	---	---	---	---	---	---	---	---	---
MW-9	11/4/1996	8.08	6.75	0.01	1.34	---	---	---	---	---	---	---	---	---	---	---
MW-9	5/17/1997	8.08	5.42	---	2.66	97000	---	16000	7700	2300	18400	40000	---	---	---	---
QC-1 (c)	5/17/1997	---	---	---	---	97000	---	16000	8200	2300	17300	39000	---	---	---	SPL
MW-9	8/11/1997	8.08	5.37	---	2.71	71000	---	12000	340	2100	4300	26000	---	---	9.1	SPL
QC-1 (c)	8/11/1997	---	---	---	---	100000	---	14000	360	3200	5790	27000	---	---	---	SPL
MW-9	11/17/1997	8.08	5.62	Sheen	2.46	100000	---	22000	4800	3100	17900	32000	---	---	8.3	SPL
QC-1 (e)	11/17/1997	---	---	---	---	100000	---	24000	5300	3500	19300	35000	---	---	---	SPL
MW-9	1/29/1998	8.08	4.07	Sheen	4.01	250000	---	20000	21000	3100	18500	110000	---	---	6.6	SPL
QC-1 (e)	1/29/1998	---	---	---	---	250000	---	20000	20000	3100	18400	110000	---	---	---	SPL
MW-9	6/22/1998	8.08	4.28	---	3.80	280000	---	21000	18000	3800	21200	110000	---	---	5.8	SPL
QC-1 (e)	6/22/1998	---	---	---	---	290000	---	20000	17000	3800	21200	110000	---	---	---	SPL
MW-9	12/30/1998	8.08	4.95	---	3.13	150000	---	10000	3800	2000	9600	86000/89000 (f)	---	---	---	SPL
MW-9	3/9/1999	8.08	3.95	---	4.13	82000	---	6800	570	1400	4700	100000	---	---	---	SPL
MW-9	6/23/1999	8.08	5.12	---	2.96	41000	---	11000	820	2300	5200	92000	---	---	---	SPL
MW-9	9/23/1999	8.08	4.74	---	3.34	57000	---	12000	5400	1900	9500	89000	---	---	---	SPL
MW-9	12/28/1999	8.08	4.58	---	3.50	46000	---	15000	490	2500	3500	100000	---	---	---	PACE
MW-9	3/22/2000	8.08	3.90	---	4.18	86000	---	18000	1800	2300	6800	120000	---	---	---	PACE
MW-9	5/26/2000	8.08	4.15	---	3.93	82000	---	17000	680	1800	3800	100000	---	---	---	PACE
MW-9	9/6/2000	8.08	4.47	---	3.61	100000	---	19000	280	2400	6400	84000	---	---	---	PACE
MW-9	9/15/2000	8.08	4.34	---	3.74	---	---	---	---	---	---	---	---	---	---	---
MW-9	12/11/2000	8.08	4.41	---	3.67	110000	---	14400	768	2610	6670	123000	---	---	---	PACE
MW-9 (h)	3/29/2001	8.08	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9 (m)	6/26/2001	8.08	5.03	0.13	3.15 (i)	---	---	---	---	---	---	---	---	---	---	---
MW-9 (m)	9/19/2001	8.08	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9	12/28/2001	8.08	3.73	---	4.35	110000	---	15000	1500	2280	5530	60900	---	---	---	PACE
MW-9	3/12/2002	8.08	4.93	---	3.15	88000	---	12500	2600	2800	8950	44000	---	---	---	PACE
MW-9	6/13/2002*	8.08	4.13	---	3.95	59000	---	9870	161	2560	5560	35600	---	---	---	PACE
MW-9	9/6/2002	8.08	4.39	---	3.69	47000	---	10000	ND<100	2100	4600	31000	---	---	---	SEQ
MW-9 (o)	12/13/2002	8.08	3.97	---	4.11	57000	---	11000	1000	2300	5800	28000	---	---	---	SEQ
MW-9 (p)	2/19/2003	8.08	3.25	---	4.83	76000	---	10000	2100	3000	8900	11000	---	---	---	SEQ
MW-9	6/6/2003	8.08	3.94	---	4.14	66000	---	9000	ND<500	2500	4400	17000	---	---	---	SEQ
MW-9	8/7/2003	8.08	3.92	Sheen	4.16	53000	---	7600	ND<250	2600	4700	17000	---	---	---	SEQ
MW-9	11/20/2003	8.08	4.89	---	3.19	40000	---	6800	ND<250	860	1100	16000	---	---	---	SEQ

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11126
1700 Powell Street, Emeryville, CA

WELL ID	DATE OF SAMPLING/ MONITORING	TOC (Feet)	DTW (a) (Feet)	PRODUCT THICKNESS (Feet)	GWE (Feet) (b)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	HVOC (ug/L)	DO (ppm)	LAB
QC-2 (g)	11/5/1992	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	10/12/1993	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	2/15/1994	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	5/11/1994	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	8/1/1994	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	10/18/1994	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	1/13/1995	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---	ATI
QC-2 (g)	4/13/1995	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---	ATI
QC-2 (g)	7/11/1995	---	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	ATI
QC-2 (g)	11/2/1995	---	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	---	ATI
QC-2 (g)	2/5/1996	---	---	---	---	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	---	SPL
QC-2 (g)	4/24/1996	---	---	---	---	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	---	SPL
QC-2 (g)	7/16/1996	---	---	---	---	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	---	SPL

Table 1
Groundwater Elevation and Analytical Data
Former BP Service Station #11126
1700 Powell Street, Emeryville, CA

ABBREVIATIONS:

TPH-G Total petroleum hydrocarbons as gasoline
 TPH-D Total petroleum hydrocarbons as diesel
 B Benzene
 T Toluene
 E Ethylbenzene
 X Total xylenes
 MTBE Methyl tert butyl ether
 TOG Total oil and grease
 HVOC Halogenated volatile organic compounds
 DO Dissolved oxygen
 ug/L Micrograms per liter
 ppm Parts per million
 ND< Not detected at or above reported detection limit
 --- Not analyzed/applicable/measurable
 PACE Pace, Inc.
 ATI Analytical Technologies, Inc.
 SPL Southern Petroleum Laboratories
 SEQ Sequoia Analytical
 TOC Top of Casing
 DTW Depth to Water
 GWE Groundwater Elevation

NOTES:

- (a) Top of casing elevations surveyed relative to an established benchmark with an elevation of 8.11 feet above mean sea level.
 - (b) Groundwater elevations adjusted assuming a specific gravity of 0.75 for free product.
 - (d) A copy of the documentation for this data is included in Appendix C of Alisto report 10-061-07-004.
 - (e) Blind duplicate.
 - (f) EPA Methods 8020/8260 used.
 - (g) Travel blank.
 - (h) Inaccessible.
 - (i) Depth to water anomalous; groundwater elevation not used in contouring.
 - (j) Well paved over.
 - (k) A copy of the documentation for this data can be found in Blaine Tech Services report 010627-Z-1. MTBE data for the November 4, 1992 sampling event has been destroyed. No chromatograms could be located for MTBE data from well MW-5, sampled on October 12, 1993
 - (l) Groundwater elevation is an estimate.
 - (m) Not sampled due to nature of SPH.
 - (n) Unable to sample.
 - (o) EPA Methods 8015B / 8021B used.
 - (p) Beginning in the first quarter 2003, TPHg and VOCs analyzed by EPA Method 8260B.
 - (q) Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
- * During the second quarter of 2002, URS Corporation assumed groundwater monitoring activities for BP

Source:

The data within this table collected prior to June 2002 was provided to URS by Atlantic Richfield Company and their previous consultants. URS has not verified the accuracy of this information.

Table 2
Fuel Oxygenate Analytical Data
Former BP Service Station #11126
1700 Powell Street, Emeryville, CA

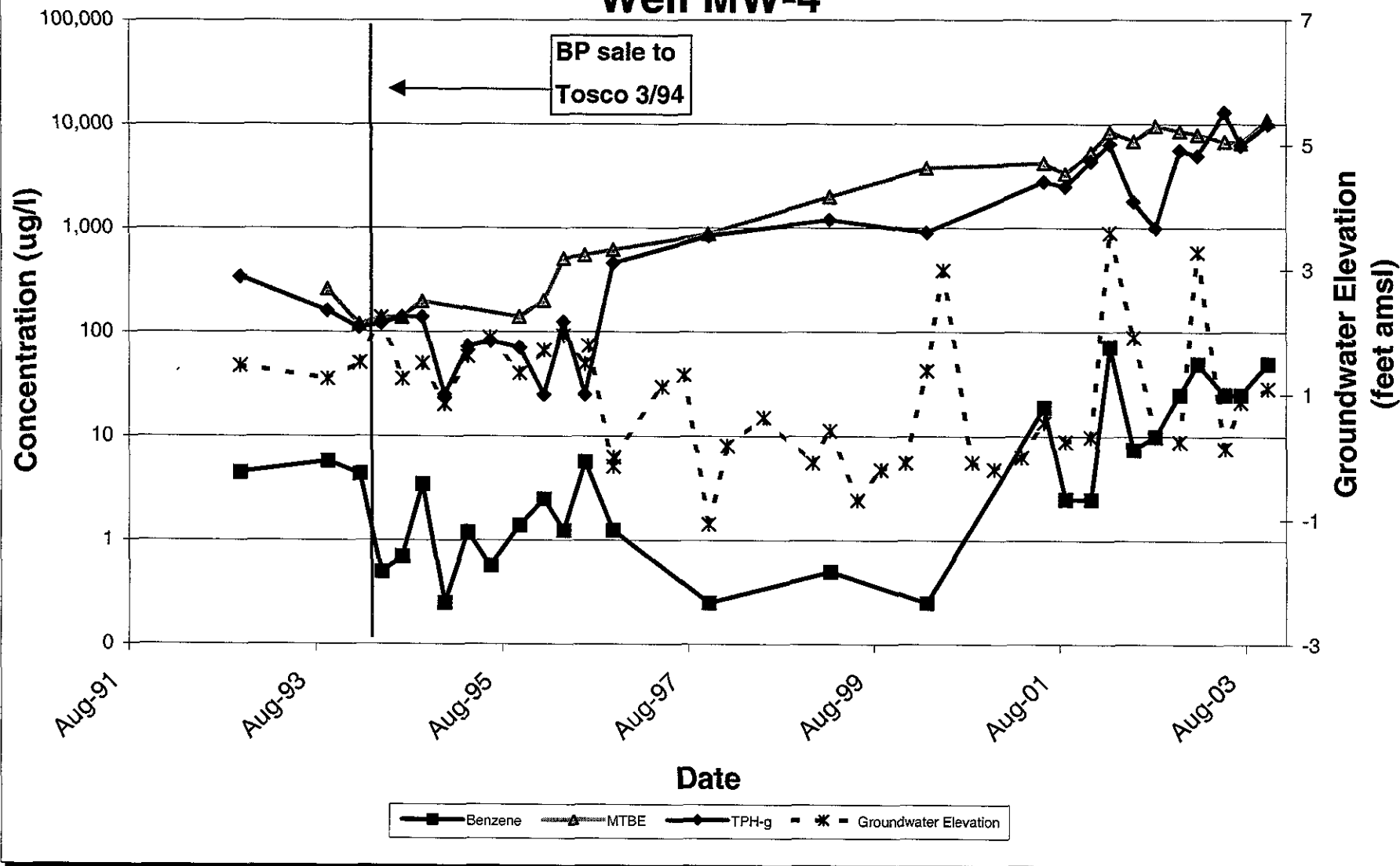
Well Number	Date Sampled	Ethanol (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
MW-1	06/06/03	ND<5,000	ND<1,000	1,400	ND<25	ND<25	ND<25	NA	NA
	08/07/03	ND<1,000	560	920	ND<5.0	ND<5.0	12	ND<5.0	ND<5.0
	11/20/03	1800 (a)	ND<200	250	ND<5.0	ND<5.0	ND<5.0	NA	NA
MW-2	06/06/03	ND<200,000	ND<40,000	72,000	ND<1,000	ND<1,000	1,300	NA	NA
	08/07/03	ND<100,000	45,000	83,000	ND<500	ND<500	1,300	ND<500	ND<500
	11/20/03	ND<20,000	48,000	18,000	ND<100	ND<100	200	NA	NA
MW-3	06/06/03	ND<1,000	ND<200	180	ND<5.0	ND<5.0	16	NA	NA
	08/07/03	ND<1,000	ND<200	290	ND<5.0	ND<5.0	20	ND<5.0	ND<5.0
	11/20/03	ND<100	ND<20	17	ND<0.50	ND<0.50	1.4	NA	NA
MW-4	06/06/03	ND<10,000	2,500	6,800	ND<50	ND<50	190	NA	NA
	08/07/03	ND<10,000	2,400	6,600	ND<50	ND<50	160	ND<50	ND<50
	11/20/03	ND<20,000	ND<4,000	11,000	ND<100	ND<100	310	NA	NA
MW-5	06/06/03	ND<1,000	ND<200	ND<5.0	ND<5.0	ND<5.0	ND<5.0	NA	NA
	08/07/03	ND<1,000	ND<200	18	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
	11/20/03	ND<500	ND<100	12	ND<2.5	ND<2.5	ND<2.5	NA	NA
MW-6	06/06/03	ND<1,000	ND<200	140	ND<5.0	ND<5.0	21	NA	NA
	08/07/03	ND<1,000	ND<200	160	ND<5.0	ND<5.0	20	ND<5.0	ND<5.0
	11/20/03	ND<100	ND<20	74	ND<0.50	ND<0.50	12	NA	NA
MW-7	06/06/03	ND<1,000	ND<200	510	ND<5.0	ND<5.0	41	NA	NA
	08/07/03	ND<1,000	ND<200	520	ND<5.0	ND<5.0	43	ND<5.0	ND<5.0
	11/20/03	ND<500 (b)	1,300	270	ND<2.5	ND<2.5	8.9	NA	NA
MW-8	06/06/03	ND<100,000	ND<20,000	17,000	ND<500	ND<500	ND<500	NA	NA
	08/07/03	ND<5,000	ND<1,000	2,400	ND<25	ND<25	44	ND<25	ND<25
	11/20/03	ND<5,000 (b)	4,100	1,400	ND<25	ND<25	ND<25	NA	NA
MW-9	06/06/03	ND<100,000	ND<20,000	17,000	ND<500	ND<500	ND<500	NA	NA
	08/07/03	ND<50,000	ND<10,000	17,000	ND<250	ND<250	350	ND<250	ND<250
	11/20/03	ND<50,000	12,000	16,000	ND<250	ND<250	ND<250	NA	NA

Note: All fuel oxygenate compounds analyzed using EPA Method 8260B
TBA = tert-Butyl alcohol
MTBE = Methyl tert-butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tert butyl ether
TAME = tert-Amyl methyl ether
1,2-DCA = 1,2-Dibromoethane
EDB = 1,2-Dichloroethane
µg/L = micrograms per liter
ND< = Not detected at or above the laboratory detection limit.
NA = Data not analyzed.
(a) = Add lab note CF2
(b) = Add lab note O-12 (without "by %high")

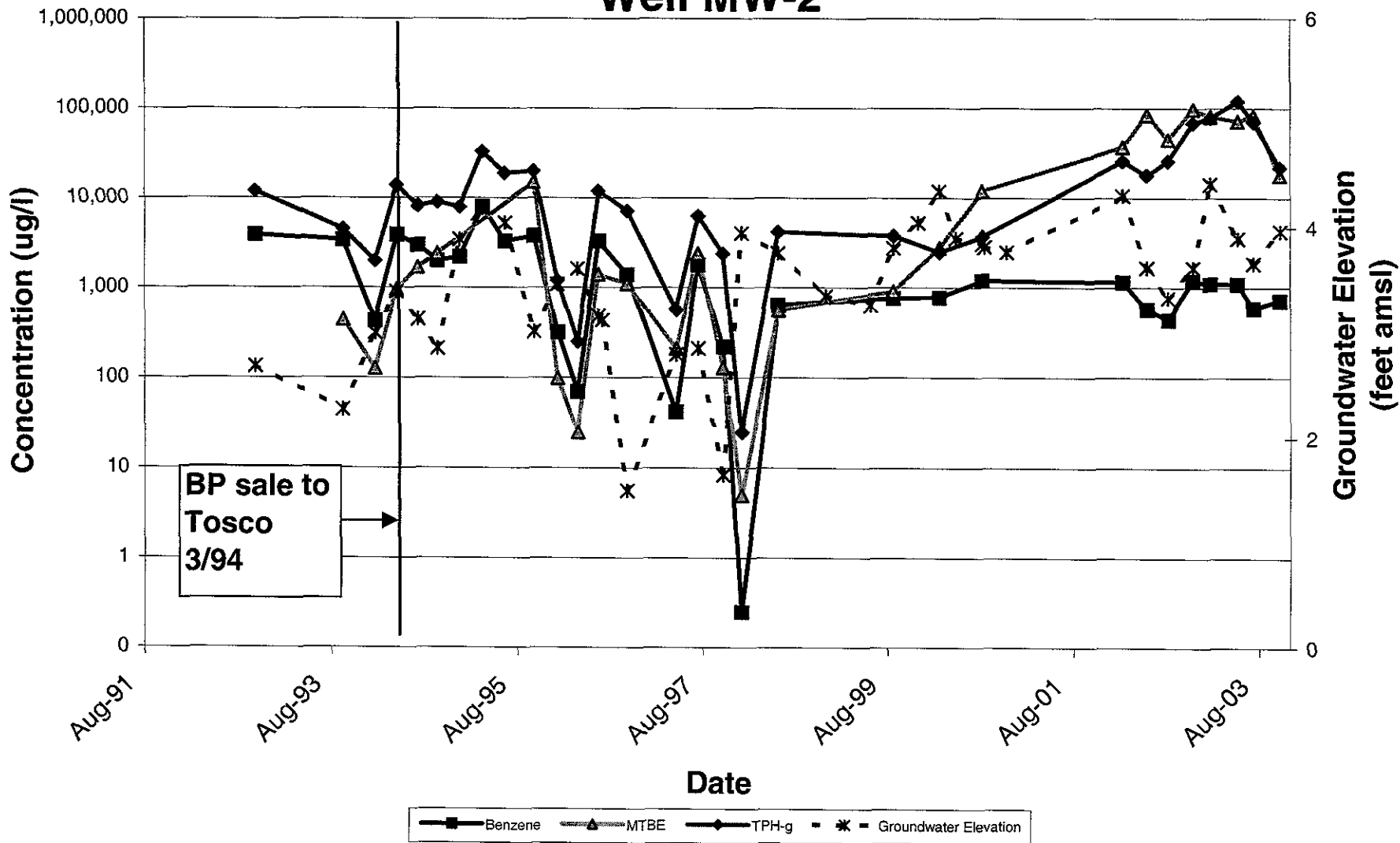
ATTACHMENT A

**CONCENTRATION AND WATER LEVEL TRENDS
(MW-4, MW-2, AND MW-9)**

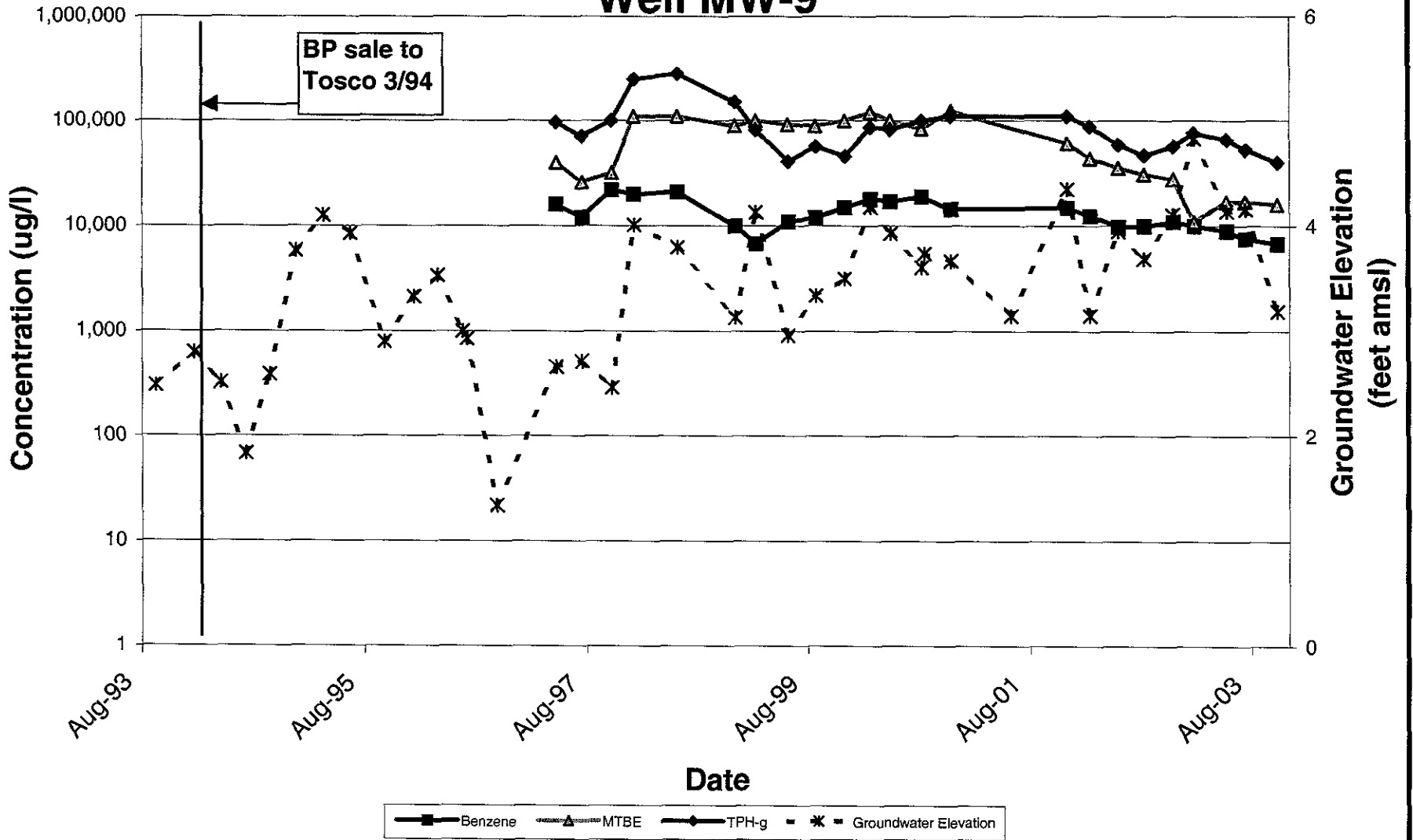
Concentration and Water Level Trends Well MW-4



Concentration and Water Level Trends Well MW-2



Concentration and Water Level Trends Well MW-9



ATTACHMENT B

FIELD PROCEDURES AND FIELD DATA SHEETS

FIELD PROCEDURES

Sampling Procedures

The sampling procedure for each well consists first of measuring the water level and depth to bottom, and checking for the presence of free phase petroleum product (free product), using either an electronic indicator and a clear Teflon™ bailer or an oil-water interface probe. Wells not containing free product are purged approximately three casing volumes of water (or until dewatered) using a centrifugal pump, gas displacement pump, or bailer. Equipment and purging method used for the current sampling event is noted on the attached field data sheets. During purging, temperature, pH, and electrical conductivity are monitored to document that these parameters are stable prior to collecting samples. After purging, water levels are allowed to partially (approximately 80%) recover. Groundwater samples (both purge and no purge) are collected using a Teflon bailer, placed into appropriate Environmental Protection Agency- (EPA) approved containers, labeled, logged onto chain-of-custody records, and transported on ice to a California State-certified laboratory. Wells with free product are not sampled and free product is removed according to California Code of Regulation, Title 23, Div. 3, Chap. 16, Section 2655, UST Regulations.

WELL GAUGING DATA

Project # 03-1120-PC1

Date 11/20/03

Client SHEEL VRS 11126

Site 1700 Powell St., Emeryville

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscible Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOB
MW-1	2					5.11	11.25	TOB
MW-2	2					4.59	11.89	
MW-3	2					4.72	11.64	
MW-4	2					7.02	10.67	
MW-5	2					5.39	12.66	TOB
MW-6	2					5.85	12.72	TOB
MW-7	2					5.79	13.65	TOB
MW-8	2					4.48	13.79	
MW-9	4					4.89	13.94	↓ HVB

ARCO / BP WELL MONITORING DATA SHEET

BTS #: <u>031120PC1</u>	Station # <u>11126 BP/76</u>
Sampler: <u>P. Cornish</u>	Date: <u>11/20/03</u>
Well I.D.: <u>MW-1</u>	Well Diameter: <u>Ø 3 4 6 8</u> _____
Total Well Depth: <u>11.25</u>	Depth to Water: <u>5.41</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: <u>Bailer</u> <input checked="" type="checkbox"/> Disposable Bailer Positive Air Displacement Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> <input checked="" type="checkbox"/> Disposable Bailer Extraction Port Other: _____
--	--

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>.9</u>	x	<u>3</u>	=	<u>2.7</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
<u>1248</u>	<u>67.2</u>	<u>6.9</u>	<u>1901</u>	<u>1</u>	<u>Black</u>
<u>1257</u>	<u>68.4</u>	<u>6.7</u>	<u>1905</u>	<u>2</u>	<u>grey</u>
<u>1255</u>	<u>68.6</u>	<u>6.7</u>	<u>1934</u>	<u>3</u>	<u>↓</u>

Did well dewater? Yes <input checked="" type="checkbox"/> <u>(No)</u>	Gallons actually evacuated: <u>3</u>	
Sampling Time: <u>1300</u>	Sampling Date: <u>11/20/03</u>	
Sample I.D.: <u>MW-1</u>	Laboratory: Pace <u>Sequid</u> Other _____	
Analyzed for: PH-C BTEX MTBE TPH-D Other: <u>Oxy's & Ethanol by 8260</u>		
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030120PC1	Station # 11126 BP/76
Sampler: P. Cornish	Date: 11/20/03
Well I.D.: MW-2	Well Diameter: \varnothing 3 4 6 8 _____
Total Well Depth: 11.89	Depth to Water: 4.59
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
---	---

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>1.2</u>	x	<u>3</u>	=	<u>3.6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1306	68.8	6.9	2222	1.2	cloudy, odor
1308	69.8	6.8	2268	2.4	↓
1310	69.5	6.8	2409	3.6	

Did well dewater? Yes No Gallons actually evacuated: 3.75

Sampling Time: 1315 Sampling Date: 11/20/03

Sample I.D.: MW-2 Laboratory: Pace Sequoia Other: _____

Analyzed for: ~~PPH-G~~ ~~BTEX~~ MTBE TPH-D Other: Oxys & Ethanol by 8260

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030120 PC1	Station # 11126 BP/76
Sampler: P. Cornish	Date: 11/20/03
Well I.D.: MW-3	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 _____
Total Well Depth: 11.64	Depth to Water: 4.72
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius * 0.163

Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
---	---

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>1.1</u>	x	<u>3</u>	=	<u>3.3</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1052	66.5	7.2	782.1	1.1	Black
1056	67.5	6.9	774.4	2.2	↓
1100	67.7	6.9	772.9	3.3	↓

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>3.5</u>
Sampling Time: <u>1105</u>	Sampling Date: <u>11/20/03</u>
Sample I.D.: <u>MW-3</u>	Laboratory: Pace <u>Sequim</u> Other _____
Analyzed for: TPH-G HTX MTBE TPH-D Other: <u>Oxy's & Ethanol by 8260, TPH-D, TOC</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031120 PC1	Station # 11126 BP/76
Sampler: P. Cornish	Date: 11/20/03
Well I.D.: MW-4	Well Diameter: \varnothing 3 4 6 8 _____
Total Well Depth: 10.62	Depth to Water: 7.02
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: <u>Bailer</u> <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
---	---

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>.6</u>	x	<u>3</u>	=	<u>1.8</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1218	68.8	7.4	2347	.6	clear
1223	68.9	7.1	2453	1.2	cloudy
1229	68.3	7.3	2546	1.8	↓

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>2</u>
Sampling Time: <u>1238</u>	Sampling Date: <u>11/20/03</u>
Sample I.D.: <u>MW-4</u>	Laboratory: Pace <u>Sequoia</u> Other _____
Analyzed for: EPH-G BTEX MTBE TPH-D Other: <u>Oxys Ethanol by 8260</u>	
D.O. (if req'd): Pre-purge: _____ mg/L	Post-purge: _____ mg/L
O.R.P. (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030120 PC1	Station # 11126 BP/76
Sampler: P. Cornish	Date: 11/20/03
Well I.D.: MW-5	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="checkbox"/> _____
Total Well Depth: 12.166	Depth to Water: 5.39
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible Extraction Pump Other: _____	Sampling Method: Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
--	---

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>1.2</u>	x	<u>3</u>	=	<u>3.6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
958	69.1	6.2	737.0	1.2	grey
1001	71.3	6.5	713.8	2.4	↓
1005	73.5	6.5	678.3	3.6	↓

Did well dewater? Yes <input checked="" type="checkbox"/>	Gallons actually evacuated: 4
Sampling Time: 1010	Sampling Date: 11/20/03
Sample I.D.: MW-5	Laboratory: Pace Sequoia Other _____
Analyzed for: PH-G BTEX MTBE TPH-D Other: Oxy's & Ethanol by 8260	
D.O. (if req'd):	Pre-purge: _____ mg/L Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031120 PC1	Station # 11126 BP/76
Sampler: P. Cornish	Date: 11/20/03
Well I.D.: MW-6	Well Diameter: \varnothing 3 4 6 8 _____
Total Well Depth: 12.72	Depth to Water: 5.85
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
---	---

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>1.1</u>	x	<u>3</u>	=	<u>3.3</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or μ S)	Gals. Removed	Observations
1019	70.1	6.8	2287	1.1	blackish
1021	71.8	7.0	1861	2.2	↓
1025	71.6	7.0	1761	3.3	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>3.5</u>
Sampling Time: 1030	Sampling Date: 11/20/03
Sample I.D.: MW-6	Laboratory: Pace <u>Sequoid</u> Other _____
Analyzed for: TPH-G <u>BTEX</u> MTBE TPH-D Other: <u>Oxys Ethanol by 8260</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031120 PC1	Station # 11126 BP/76
Sampler: P. Cornish	Date: 11/20/03
Well I.D.: MW-7	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8
Total Well Depth: 13.65	Depth to Water: 5.79
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
---	---

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

1.3	x	3	=	3.9	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1146	73.5	7.2	3444	1.3	clear
1149	73.9	7.1	2722	2.6	blackening
1152	73.6	7.2	2835	3.9	black

Did well dewater? Yes <input checked="" type="checkbox"/> No	Gallons actually evacuated: 4
Sampling Time: 1158	Sampling Date: 11/20/03
Sample I.D.: MW-7	Laboratory: Pace <u>Sequoi</u> Other _____
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>Oxy's & Ethanol by 8260</u>	
D.O. (if req'd):	Pre-purge: _____ mg/L Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 030120 PC1	Station # 11126 BP/76
Sampler: P. Cornish	Date: 11/20/03
Well I.D.: MW-8	Well Diameter: <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 _____
Total Well Depth: 13.79	Depth to Water: 4.48
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: Bailer Sampling Method: Bailer

Disposable Bailer Disposable Bailer

Positive Air Displacement Extraction Port

Electric Submersible Other: _____

Extraction Pump

Other: _____

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

<u>1.5</u>	x	<u>3</u>	=	<u>4.5</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1127	72.1	6.6	2168	1.5	clear
1131	73.1	6.7	2206	3	
1134	72.9	6.9	2298	4.5	↓ Bubbly

Did well dewater? Yes No Gallons actually evacuated: 4.5

Sampling Time: 1138 Sampling Date: 11/20/03

Sample I.D.: MW-8 Laboratory: Pace Sequid Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: Oxy's & Ethanol by 8260

D.O. (if req'd): Pre-purge: _____ mg/L Post-purge: _____ mg/L

O.R.P. (if req'd): Pre-purge: _____ mV Post-purge: _____ mV

ARCO / BP WELL MONITORING DATA SHEET

BTS #: 031120 PC1	Station # 11126 BP/76
Sampler: P. Cornish	Date: 11/20/03
Well I.D.: MW-9	Well Diameter: 3 3 4 6 8
Total Well Depth: 13.94	Depth to Water: 4.89
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
---	---

Top of Screen: _____ If well is listed as a no-purge, confirm that water level is below the top of screen. Otherwise, the well must be purged.

5.9	x	3	=	17.7	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Conductivity (mS or µS)	Gals. Removed	Observations
1340	67.4	7.1	1314	786	
					Well dewatered 8 gals
1400	67.6	6.7	1356	DTW - 5.89	

Did well dewater? Yes No	Gallons actually evacuated: 8
Sampling Time: 1400	Sampling Date: 11/20/03
Sample I.D.: MW-9	Laboratory: Pace Sequoia Other _____
Analyzed for: TPH-G BTEX MTBE TPH-D Other: Oxy's & Ethanol by 8260	
D.O. (if req'd):	Pre-purge: _____ mg/L Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

BP GEM OIL COMPANY TYPE **A** BILL OF LADING

SOURCE RECORD BILL OF LADING FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT BP GEM OIL COMPANY FACILITIES IN THE STATE OF CALIFORNIA. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS IS COLLECTED BY THE CONTRACTOR, MADE UP INTO LOADS OF APPROPRIATE SIZE AND HAULED BY DILLARD ENVIRONMENTAL TO THE ALTAMONT LANDFILL AND RESOURCE RECOVERY FACILITY IN LIVERMORE, CALIFORNIA.

The contractor performing this work is PLAINE TECH SERVICES, INC. (BTS), 1680 Rogers Avenue, San Jose, CA 95112 (phone [408] 573-0555). Blaine Tech Services, Inc. is authorized by BP GEM OIL COMPANY to recover, collect, apportion into loads the Non-Hazardous Well Purgewater that is drawn from wells at the BP GEM Oil Company facility indicated below and deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one BP GEM facility to the designated destination point; from one BP GEM facility to the designated destination point via another BP GEM facility; from a BP GEM facility to the designated destination point via the contractor's facility, or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of BP GEM Oil Company.

This Source Record **BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the BP GEM Oil Company facility described below:

~~1169~~ 1126

Station #

~~77~~ 1700 Powell St. Emeryville

Station Address

Total Gallons Collected From Groundwater Monitoring Wells:

36.25

added equip.
rinse water

3.75

any other
adjustments

TOTAL GALS.
RECOVERED

40

loaded onto
BTS vehicle #

22

BTS event #

031120-P01

time

date

11 / 20 / 03

signature

PJA

REC'D AT

time

date

BTS

11 / 20 / 03

unloaded by

signature

PJA

ATTACHMENT C

**LABORATORY PROCEDURES,
CERTIFIED ANALYTICAL REPORTS,
AND CHAIN-OF-CUSTODY RECORDS**

LABORATORY PROCEDURES

Laboratory Procedures

The groundwater samples were analyzed for the presence of the chemicals mentioned in the chain of custody using standard EPA methods. The methods of analysis for the groundwater samples are documented in the certified analytical report. The certified analytical reports and chain-of-custody record are presented in this attachment. The analytical data provided by the laboratory approved by Atlantic Richfield Company have been reviewed and verified by that laboratory.



11 December, 2003

Leonard Niles
URS Corporation [Arco]
500 12th Street, Suite 200
Oakland, CA 94607

RE: BP Heritage #11126, Emeryville, CA
Work Order: MMK0735

Enclosed are the results of analyses for samples received by the laboratory on 11/21/03 17:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Camnga Thach For Theresa Allen
Project Manager

CA ELAP Certificate #1210



URS Corporation [Arco] 500 12th Street, Suite 200 Oakland CA, 94607	Project: BP Heritage #11126, Emeryville, CA Project Number: N/P Project Manager: Leonard Niles	MMK0735 Reported: 12/11/03 11:48
---	--	--

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MMK0735-01	Water	11/20/03 13:00	11/21/03 17:55
MW-2	MMK0735-02	Water	11/20/03 13:15	11/21/03 17:55
MW-3	MMK0735-03	Water	11/20/03 11:05	11/21/03 17:55
MW-4	MMK0735-04	Water	11/20/03 12:38	11/21/03 17:55
MW-5	MMK0735-05	Water	11/20/03 10:10	11/21/03 17:55
MW-6	MMK0735-06	Water	11/20/03 10:30	11/21/03 17:55
MW-7	MMK0735-07	Water	11/20/03 11:58	11/21/03 17:55
MW-8	MMK0735-08	Water	11/20/03 11:38	11/21/03 17:55
MW-9	MMK0735-09	Water	11/20/03 14:00	11/21/03 17:55
TB-1112611202003	MMK0735-10	Water	11/20/03 00:00	11/21/03 17:55



URS Corporation [Arco]
500 12th Street, Suite 200
Oakland CA, 94607

Project: BP Heritage #11126, Emeryville, CA
Project Number: N/P
Project Manager: Leonard Niles

MMK0735
Reported:
12/11/03 11:48

**Extractable Hydrocarbons by EPA 8015B
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MMK0735-03) Water Sampled: 11/20/03 11:05 Received: 11/21/03 17:55									
Diesel Range Organics (C10-C28)	1200	96	ug/l	2	3K26025	11/26/03	12/06/03	EPA 8015B-SVOA	HC-12
<i>Surrogate: n-Octacosane</i>		173 %	34-123		"	"	"	"	S-04

URS Corporation [Arco]
500 12th Street, Suite 200
Oakland CA, 94607

Project: BP Heritage #11126, Emeryville, CA
Project Number: N/P
Project Manager: Leonard Niles

MMK0735
Reported:
12/11/03 11:48

**Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MMK0735-01) Water Sampled: 11/20/03 13:00 Received: 11/21/03 17:55									
Ethanol	1800	1000	ug/l	10	3L04005	12/04/03	12/04/03	EPA 8260B	CF2
tert-Butyl alcohol	ND	200	"	"	"	"	"	"	"
Methyl tert-butyl ether	250	5.0	"	"	"	"	"	"	"
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	"
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	"
Benzene	420	5.0	"	"	"	"	"	"	"
Toluene	11	5.0	"	"	"	"	"	"	"
Ethylbenzene	11	5.0	"	"	"	"	"	"	"
Xylenes (total)	53	5.0	"	"	"	"	"	"	"
Gasoline Range Organics	2800	500	"	"	"	"	"	"	"

<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.8 %	78-129	"	"	"	"	"	
MW-1 (MMK0735-01RE1) Water Sampled: 11/20/03 13:00 Received: 11/21/03 17:55 HT-RA									

<i>Surrogate: 1,2-Dichloroethane-d4</i>		111 %	78-129	3L05009	12/05/03	12/05/03	EPA 8260B		
MW-2 (MMK0735-02) Water Sampled: 11/20/03 13:15 Received: 11/21/03 17:55									
Ethanol	ND	20000	ug/l	200	3L04005	12/04/03	12/04/03	EPA 8260B	
tert-Butyl alcohol	48000	4000	"	"	"	"	"	"	
Methyl tert-butyl ether	18000	100	"	"	"	"	"	"	
Di-isopropyl ether	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	100	"	"	"	"	"	"	
tert-Amyl methyl ether	200	100	"	"	"	"	"	"	
Benzene	720	100	"	"	"	"	"	"	
Toluene	ND	100	"	"	"	"	"	"	
Ethylbenzene	ND	100	"	"	"	"	"	"	
Xylenes (total)	ND	100	"	"	"	"	"	"	
Gasoline Range Organics	22000	10000	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.8 %	78-129	"	"	"	"	"	

URS Corporation [Arco]
 500 12th Street, Suite 200
 Oakland CA, 94607

 Project: BP Heritage #11126, Emeryville, CA
 Project Number: N/P
 Project Manager: Leonard Niles

 MMK0735
 Reported:
 12/11/03 11:48

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MMK0735-03) Water Sampled: 11/20/03 11:05 Received: 11/21/03 17:55									
Ethanol	ND	100	ug/l	1	3L04005	12/04/03	12/04/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	17	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	1.4	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Gasoline Range Organics	ND	50	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4

98.4 %

78-129

"

"

"

"

MW-4 (MMK0735-04) Water Sampled: 11/20/03 12:38 Received: 11/21/03 17:55

Ethanol	ND	20000	ug/l	200	3L04005	12/04/03	12/04/03	EPA 8260B	
tert-Butyl alcohol	ND	4000	"	"	"	"	"	"	
Methyl tert-butyl ether	11000	100	"	"	"	"	"	"	
Di-isopropyl ether	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	100	"	"	"	"	"	"	
tert-Amyl methyl ether	310	100	"	"	"	"	"	"	
Benzene	ND	100	"	"	"	"	"	"	
Toluene	ND	100	"	"	"	"	"	"	
Ethylbenzene	ND	100	"	"	"	"	"	"	
Xylenes (total)	ND	100	"	"	"	"	"	"	
Gasoline Range Organics	10000	10000	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4

99.8 %

78-129

"

"

"

"

URS Corporation [Arco]
500 12th Street, Suite 200
Oakland CA, 94607

Project: BP Heritage #11126, Emeryville, CA
Project Number: N/P
Project Manager: Leonard Niles

MMK0735
Reported:
12/11/03 11:48

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (MMK0735-05) Water Sampled: 11/20/03 10:10 Received: 11/21/03 17:55									
Ethanol	ND	500	ug/l	5	3L04005	12/04/03	12/04/03	EPA 8260B	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	"
Methyl tert-butyl ether	12	2.5	"	"	"	"	"	"	"
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	"
tert-Amyl methyl ether	ND	2.5	"	"	"	"	"	"	"
Benzene	12	2.5	"	"	"	"	"	"	"
Toluene	5.4	2.5	"	"	"	"	"	"	"
Ethylbenzene	6.4	2.5	"	"	"	"	"	"	"
Xylenes (total)	12	2.5	"	"	"	"	"	"	"
Gasoline Range Organics	3500	250	"	"	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4

103 % 78-129 " " " "

MW-6 (MMK0735-06) Water Sampled: 11/20/03 10:30 Received: 11/21/03 17:55

Ethanol	ND	100	ug/l	1	3L04005	12/04/03	12/04/03	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	"
Methyl tert-butyl ether	74	0.50	"	"	"	"	"	"	"
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	"
tert-Amyl methyl ether	12	0.50	"	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"	"
Xylenes (total)	ND	0.50	"	"	"	"	"	"	"
Gasoline Range Organics	95	50	"	"	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4

100 % 78-129 " " " "



URS Corporation [Arco] 500 12th Street, Suite 200 Oakland CA, 94607	Project: BP Heritage #11126, Emeryville, CA Project Number: N/P Project Manager: Leonard Niles	MMK0735 Reported: 12/11/03 11:48
---	--	--

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (MMK0735-07) Water Sampled: 11/20/03 11:58 Received: 11/21/03 17:55									
Ethanol	ND	500	ug/l	5	3L04009	12/04/03	12/04/03	EPA 8260B	O-12
tert-Butyl alcohol	1300	100	"	"	"	"	"	"	
Methyl tert-butyl ether	270	2.5	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.5	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
tert-Amyl methyl ether	8.9	2.5	"	"	"	"	"	"	
Benzene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	
Ethylbenzene	ND	2.5	"	"	"	"	"	"	
Xylenes (total)	ND	2.5	"	"	"	"	"	"	
Gasoline Range Organics	330	250	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		112 %	78-129	"	"	"	"	"	
MW-8 (MMK0735-08) Water Sampled: 11/20/03 11:38 Received: 11/21/03 17:55									
Ethanol	ND	5000	ug/l	50	3L04009	12/04/03	12/04/03	EPA 8260B	O-12
tert-Butyl alcohol	4100	1000	"	"	"	"	"	"	
Methyl tert-butyl ether	1400	25	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	25	"	"	"	"	"	"	
Benzene	ND	25	"	"	"	"	"	"	
Toluene	ND	25	"	"	"	"	"	"	
Ethylbenzene	ND	25	"	"	"	"	"	"	
Xylenes (total)	ND	25	"	"	"	"	"	"	
Gasoline Range Organics	ND	2500	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		120 %	78-129	"	"	"	"	"	

URS Corporation [Arco]
500 12th Street, Suite 200
Oakland CA, 94607

Project: BP Heritage #11126, Emeryville, CA
Project Number: N/P
Project Manager: Leonard Niles

MMK0735
Reported:
12/11/03 11:48

**Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 (MMK0735-09) Water Sampled: 11/20/03 14:00 Received: 11/21/03 17:55									
Ethanol	ND	50000	ug/l	500	3L04009	12/04/03	12/04/03	EPA 8260B	O-12
tert-Butyl alcohol	12000	10000	"	"	"	"	"	"	
Methyl tert-butyl ether	16000	250	"	"	"	"	"	"	
Di-isopropyl ether	ND	250	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	250	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	250	"	"	"	"	"	"	
Benzene	6800	250	"	"	"	"	"	"	
Toluene	ND	250	"	"	"	"	"	"	
Ethylbenzene	860	250	"	"	"	"	"	"	
Xylenes (total)	1100	250	"	"	"	"	"	"	
Gasoline Range Organics	40000	25000	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		117 %	78-129	"	"	"	"	"	
TB-1112611202003 (MMK0735-10) Water Sampled: 11/20/03 00:00 Received: 11/21/03 17:55									
Ethanol	ND	100	ug/l	1	3L05009	12/05/03	12/05/03	EPA 8260B	HT-04
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	78-129	"	"	"	"	"	



URS Corporation [Arco]
500 12th Street, Suite 200
Oakland CA, 94607

Project: BP Heritage #11126, Emeryville, CA
Project Number: N/P
Project Manager: Leonard Niles

MMK0735
Reported:
12/11/03 11:48

**Conventional Chemistry Parameters by APHA/EPA Methods
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MMK0735-03) Water Sampled: 11/20/03 11:05 Received: 11/21/03 17:55									
Oil & Grease (HEM)	ND	4.8	mg/l	1	3K24008	11/24/03	11/26/03	EPA 1664A	

URS Corporation [Arco]
 500 12th Street, Suite 200
 Oakland CA, 94607

 Project: BP Heritage #11126, Emeryville, CA
 Project Number: N/P
 Project Manager: Leonard Niles

 MMK0735
 Reported:
 12/11/03 11:48

Extractable Hydrocarbons by EPA 8015B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3K26025 - EPA 3510C									
Blank (3K26025-BLK1)					Prepared: 11/26/03 Analyzed: 12/05/03				
Diesel Range Organics (C10-C28)	ND	50	ug/l						
<i>Surrogate: n-Octacosane</i>	45.4		"	50.0		90.8 34-123			
Laboratory Control Sample (3K26025-BS1)					Prepared: 11/26/03 Analyzed: 12/05/03				
Diesel Range Organics (C10-C28)	449	50	ug/l	500		89.8 51-128			
<i>Surrogate: n-Octacosane</i>	43.3		"	50.0		86.6 34-123			
Laboratory Control Sample Dup (3K26025-BSD1)					Prepared: 11/26/03 Analyzed: 12/05/03				
Diesel Range Organics (C10-C28)	444	50	ug/l	500		88.8 51-128	1.12	27	
<i>Surrogate: n-Octacosane</i>	45.1		"	50.0		90.2 34-123			

URS Corporation [Arco]
500 12th Street, Suite 200
Oakland CA, 94607

Project: BP Heritage #11126, Emeryville, CA
Project Number: N/P
Project Manager: Leonard Niles

MMK0735
Reported:
12/11/03 11:48

**Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3L04005 - EPA 5030B Modified

Blank (3L04005-BLK1)

Prepared & Analyzed: 12/04/03

Ethanol	ND	100	ug/l							
tert-Butyl alcohol	ND	20	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.98		"	5.00		99.6	78-129			

Laboratory Control Sample (3L04005-BS1)

Prepared & Analyzed: 12/04/03

Ethanol	208	100	ug/l	200		104	31-186			
tert-Butyl alcohol	38.8	20	"	50.0		77.6	0-206			
Methyl tert-butyl ether	10.1	0.50	"	10.0		101	63-137			
Di-isopropyl ether	11.1	0.50	"	10.0		111	76-130			
Ethyl tert-butyl ether	10.8	0.50	"	10.0		108	61-141			
tert-Amyl methyl ether	10.4	0.50	"	10.0		104	56-140			
1,2-Dichloroethane	9.63	0.50	"	10.0		96.3	77-136			
1,2-Dibromoethane (EDB)	9.77	0.50	"	10.0		97.7	77-132			
Benzene	9.68	0.50	"	10.0		96.8	78-124			
Toluene	9.73	0.50	"	10.0		97.3	78-129			
Ethylbenzene	9.95	0.50	"	10.0		99.5	84-117			
Xylenes (total)	31.1	0.50	"	30.0		104	83-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.90		"	5.00		98.0	78-129			

URS Corporation [Arco]
 500 12th Street, Suite 200
 Oakland CA, 94607

 Project: BP Heritage #11126, Emeryville, CA
 Project Number: N/P
 Project Manager: Leonard Niles

 MMK0735
 Reported:
 12/11/03 11:48

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3L04005 - EPA 5030B Modified
Laboratory Control Sample (3L04005-BS2)

Prepared & Analyzed: 12/04/03

Methyl tert-butyl ether	8.66	0.50	ug/l	9.92		87.3	63-137			
Benzene	5.36	0.50	"	6.40		83.8	78-124			
Toluene	31.6	0.50	"	29.7		106	78-129			
Ethylbenzene	7.69	0.50	"	6.96		110	84-117			
Xylenes (total)	38.7	0.50	"	33.7		115	83-125			
Gasoline Range Organics	462	50	"	440		105	70-113			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.52		"	5.00		90.4	78-129			

Laboratory Control Sample Dup (3L04005-BSD1)

Prepared: 12/04/03 Analyzed: 12/05/03

Ethanol	203	100	ug/l	200		102	31-186	2.43	37	
tert-Butyl alcohol	35.2	20	"	50.0		70.4	0-206	9.73	22	O-10
Methyl tert-butyl ether	10.3	0.50	"	10.0		103	63-137	1.96	13	
Di-isopropyl ether	11.2	0.50	"	10.0		112	76-130	0.897	9	
Ethyl tert-butyl ether	11.2	0.50	"	10.0		112	61-141	3.64	9	
tert-Amyl methyl ether	10.7	0.50	"	10.0		107	56-140	2.84	12	
1,2-Dichloroethane	9.56	0.50	"	10.0		95.6	77-136	0.730	13	
1,2-Dibromoethane (EDB)	9.00	0.50	"	10.0		90.0	77-132	8.20	9	
Benzene	9.32	0.50	"	10.0		93.2	78-124	3.79	12	
Toluene	8.44	0.50	"	10.0		84.4	78-129	14.2	10	QR-02
Ethylbenzene	8.61	0.50	"	10.0		86.1	84-117	14.4	10	QR-02
Xylenes (total)	26.2	0.50	"	30.0		87.3	83-125	17.1	11	QR-02
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.10		"	5.00		102	78-129			

Laboratory Control Sample Dup (3L04005-BSD2)

Prepared: 12/04/03 Analyzed: 12/05/03

Methyl tert-butyl ether	9.04	0.50	ug/l	9.92		91.1	63-137	4.29	13	
Benzene	5.35	0.50	"	6.40		83.6	78-124	0.187	12	
Toluene	29.7	0.50	"	29.7		100	78-129	6.20	10	
Ethylbenzene	7.11	0.50	"	6.96		102	84-117	7.84	10	
Xylenes (total)	36.2	0.50	"	33.7		107	83-125	6.68	11	
Gasoline Range Organics	417	50	"	440		94.8	70-113	10.2	9	QR-02
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.84		"	5.00		96.8	78-129			

URS Corporation [Arco]
 500 12th Street, Suite 200
 Oakland CA, 94607

 Project: BP Heritage #11126, Emeryville, CA
 Project Number: N/P
 Project Manager: Leonard Niles

 MMK0735
 Reported:
 12/11/03 11:48

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3L04005 - EPA 5030B Modified

Matrix Spike (3L04005-MS1)	Source: MML0111-01			Prepared: 12/04/03		Analyzed: 12/05/03				
Ethanol	223	100	ug/l	200	ND	112	31-186			
tert-Butyl alcohol	35.2	20	"	50.0	ND	70.4	0-206			O-10
Methyl tert-butyl ether	10.8	0.50	"	10.0	ND	108	63-137			
Di-isopropyl ether	11.4	0.50	"	10.0	ND	114	76-130			
Ethyl tert-butyl ether	11.4	0.50	"	10.0	ND	114	61-141			
tert-Amyl methyl ether	11.1	0.50	"	10.0	ND	111	56-140			
1,2-Dichloroethane	9.84	0.50	"	10.0	ND	98.4	77-126			
1,2-Dibromoethane (EDB)	10.1	0.50	"	10.0	ND	101	77-132			
Benzene	9.50	0.50	"	10.0	ND	95.0	78-124			
Toluene	8.92	0.50	"	10.0	0.13	87.9	78-129			
Ethylbenzene	9.00	0.50	"	10.0	ND	90.0	84-117			
Xylenes (total)	27.2	0.50	"	30.0	ND	90.7	83-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.93</i>		<i>"</i>	<i>5.00</i>		<i>98.6</i>	<i>78-129</i>			

Matrix Spike Dup (3L04005-MSD1)	Source: MML0111-01			Prepared: 12/04/03		Analyzed: 12/05/03				
Ethanol	219	100	ug/l	200	ND	110	31-186	1.81	37	
tert-Butyl alcohol	29.6	20	"	50.0	ND	59.2	0-206	17.3	22	O-10
Methyl tert-butyl ether	10.4	0.50	"	10.0	ND	104	63-137	3.77	13	
Di-isopropyl ether	11.2	0.50	"	10.0	ND	112	76-130	1.77	9	
Ethyl tert-butyl ether	11.1	0.50	"	10.0	ND	111	61-141	2.67	9	
tert-Amyl methyl ether	10.9	0.50	"	10.0	ND	109	56-140	1.82	12	
1,2-Dichloroethane	9.67	0.50	"	10.0	ND	96.7	77-126	1.74	13	
1,2-Dibromoethane (EDB)	9.77	0.50	"	10.0	ND	97.7	77-132	3.32	9	
Benzene	9.33	0.50	"	10.0	ND	93.3	78-124	1.81	12	
Toluene	8.45	0.50	"	10.0	0.13	83.2	78-129	5.41	10	
Ethylbenzene	8.66	0.50	"	10.0	ND	86.6	84-117	3.85	10	
Xylenes (total)	26.1	0.50	"	30.0	ND	87.0	83-125	4.13	11	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.89</i>		<i>"</i>	<i>5.00</i>		<i>97.8</i>	<i>78-129</i>			

URS Corporation [Arco]
 500 12th Street, Suite 200
 Oakland CA, 94607

 Project: BP Heritage #11126, Emeryville, CA
 Project Number: N/P
 Project Manager: Leonard Niles

 MMK0735
 Reported:
 12/11/03 11:48

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3L04009 - EPA 5030B P/T
Blank (3L04009-BLK1)

Prepared & Analyzed: 12/04/03

Ethanol	ND	100	ug/l							O-12
tert-Butyl alcohol	ND	20	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.28		"	5.00		106	78-129			

Laboratory Control Sample (3L04009-BS1)

Prepared & Analyzed: 12/04/03

Ethanol	141	100	ug/l	200		70.5	31-186			O-12
tert-Butyl alcohol	52.4	20	"	50.0		105	0-206			
Methyl tert-butyl ether	9.51	0.50	"	10.0		95.1	63-137			
Di-isopropyl ether	9.37	0.50	"	10.0		93.7	76-130			
Ethyl tert-butyl ether	9.28	0.50	"	10.0		92.8	61-141			
tert-Amyl methyl ether	9.37	0.50	"	10.0		93.7	56-140			
1,2-Dichloroethane	8.87	0.50	"	10.0		88.7	77-136			
1,2-Dibromoethane (EDB)	10.1	0.50	"	10.0		101	77-132			
Benzene	10.2	0.50	"	10.0		102	78-124			
Toluene	8.27	0.50	"	10.0		82.7	78-129			
Ethylbenzene	8.05	0.50	"	10.0		80.5	84-117			Q-LIM
Xylenes (total)	26.6	0.50	"	30.0		88.7	83-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	4.73		"	5.00		94.6	78-129			

URS Corporation [Arco]
500 12th Street, Suite 200
Oakland CA, 94607

Project: BP Heritage #11126, Emeryville, CA
Project Number: N/P
Project Manager: Leonard Niles

MMK0735
Reported:
12/11/03 11:48

**Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3L04009 - EPA 5030B P/T
Laboratory Control Sample (3L04009-BS2)

Prepared & Analyzed: 12/04/03

Methyl tert-butyl ether	8.95	0.50	ug/l	9.92		90.2	63-137			
Benzene	5.83	0.50	"	6.40		91.1	78-124			
Toluene	32.7	0.50	"	29.7		110	78-129			
Ethylbenzene	5.86	0.50	"	6.96		84.2	84-117			
Xylenes (total)	34.8	0.50	"	33.7		103	83-125			
Gasoline Range Organics	462	50	"	440		105	70-113			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>5.34</i>		<i>"</i>	<i>5.00</i>		<i>107</i>	<i>78-129</i>			

Laboratory Control Sample Dup (3L04009-BSD1)

Prepared & Analyzed: 12/04/03

Ethanol	168	100	ug/l	200		84.0	31-186	17.5	37	O-12
tert-Butyl alcohol	50.0	20	"	50.0		100	0-206	4.69	22	
Methyl tert-butyl ether	8.93	0.50	"	10.0		89.3	63-137	6.29	13	
Di-isopropyl ether	9.15	0.50	"	10.0		91.5	76-130	2.38	9	
Ethyl tert-butyl ether	9.21	0.50	"	10.0		92.1	61-141	0.757	9	
tert-Amyl methyl ether	8.71	0.50	"	10.0		87.1	56-140	7.30	12	
1,2-Dichloroethane	8.88	0.50	"	10.0		88.8	77-136	0.113	13	
1,2-Dibromoethane (EDB)	10.1	0.50	"	10.0		101	77-132	0.00	9	
Benzene	10.3	0.50	"	10.0		103	78-124	0.976	12	
Toluene	8.98	0.50	"	10.0		89.8	78-129	8.23	10	
Ethylbenzene	8.51	0.50	"	10.0		85.1	84-117	5.56	10	
Xylenes (total)	29.3	0.50	"	30.0		97.7	83-125	9.66	11	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.58</i>		<i>"</i>	<i>5.00</i>		<i>91.6</i>	<i>78-129</i>			

Laboratory Control Sample Dup (3L04009-BSD2)

Prepared & Analyzed: 12/04/03

Methyl tert-butyl ether	8.71	0.50	ug/l	9.92		87.8	63-137	2.72	13	
Benzene	5.59	0.50	"	6.40		87.3	78-124	4.20	12	
Toluene	29.0	0.50	"	29.7		97.6	78-129	12.0	10	QR-02
Ethylbenzene	5.83	0.50	"	6.96		83.8	84-117	0.513	10	Q-LIM
Xylenes (total)	34.1	0.50	"	33.7		101	83-125	2.03	11	
Gasoline Range Organics	403	50	"	440		91.6	70-113	13.6	9	QR-02
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>4.65</i>		<i>"</i>	<i>5.00</i>		<i>93.0</i>	<i>78-129</i>			

URS Corporation [Arco] 500 12th Street, Suite 200 Oakland CA, 94607	Project: BP Heritage #11126, Emeryville, CA Project Number: N/P Project Manager: Leonard Niles	MMK0735 Reported: 12/11/03 11:48
---	--	--

**Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3L05009 - EPA 5030B P/T

Blank (3L05009-BLK1)

Prepared & Analyzed: 12/05/03

Ethanol	ND	100	ug/l							O-12a
tert-Butyl alcohol	ND	20	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Gasoline Range Organics	ND	50	"							

Surrogate: 1,2-Dichloroethane-d4

5.40

"

5.00

108

78-129

Laboratory Control Sample (3L05009-BS1)

Prepared & Analyzed: 12/05/03

Ethanol	225	100	ug/l	200		112	31-186			O-12a
tert-Butyl alcohol	50.2	20	"	50.0		100	0-206			
Methyl tert-butyl ether	11.3	0.50	"	10.0		113	63-137			
Di-isopropyl ether	10.8	0.50	"	10.0		108	76-130			
Ethyl tert-butyl ether	11.0	0.50	"	10.0		110	61-141			
tert-Amyl methyl ether	11.2	0.50	"	10.0		112	56-140			
1,2-Dichloroethane	12.2	0.50	"	10.0		122	77-136			
1,2-Dibromoethane (EDB)	10.7	0.50	"	10.0		107	77-132			
Benzene	11.8	0.50	"	10.0		118	78-124			
Toluene	11.2	0.50	"	10.0		112	78-129			
Ethylbenzene	10.9	0.50	"	10.0		109	84-117			
Xylenes (total)	32.2	0.50	"	30.0		107	83-125			

Surrogate: 1,2-Dichloroethane-d4

5.34

"

5.00

107

78-129

URS Corporation [Arco]
500 12th Street, Suite 200
Oakland CA, 94607

Project: BP Heritage #11126, Emeryville, CA
Project Number: N/P
Project Manager: Leonard Niles

MMK0735
Reported:
12/11/03 11:48

**Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3L05009 - EPA 5030B P/T
Laboratory Control Sample (3L05009-BS2)

Prepared & Analyzed: 12/05/03

Gasoline Range Organics	429	50	ug/l	440		97.5	70-113			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.33		"	5.00		107	78-129			

Laboratory Control Sample Dup (3L05009-BSD1)

Prepared: 12/05/03 Analyzed: 12/06/03

Ethanol	191	100	ug/l	200		95.5	31-186	16.3	37	
tert-Butyl alcohol	51.2	20	"	50.0		102	0-206	1.97	22	
Methyl tert-butyl ether	10.0	0.50	"	10.0		100	63-137	12.2	13	
Di-isopropyl ether	9.41	0.50	"	10.0		94.1	76-130	13.8	9	QR-02
Ethyl tert-butyl ether	9.65	0.50	"	10.0		96.5	61-141	13.1	9	QR-02
tert-Amyl methyl ether	9.44	0.50	"	10.0		94.4	56-140	17.1	12	QR-02
1,2-Dichloroethane	10.8	0.50	"	10.0		108	77-136	12.2	13	
1,2-Dibromoethane (EDB)	9.72	0.50	"	10.0		97.2	77-132	9.60	9	QR-02
Benzene	10.4	0.50	"	10.0		104	78-124	12.6	12	QR-02
Toluene	9.57	0.50	"	10.0		95.7	78-129	15.7	10	QR-02
Ethylbenzene	9.55	0.50	"	10.0		95.5	84-117	13.2	10	QR-02
Xylenes (total)	26.7	0.50	"	30.0		89.0	83-125	18.7	11	QR-02
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.18		"	5.00		104	78-129			

Laboratory Control Sample Dup (3L05009-BSD2)

Prepared: 12/05/03 Analyzed: 12/06/03

Gasoline Range Organics	411	50	ug/l	440		93.4	70-113	4.29	9	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.42		"	5.00		108	78-129			

Matrix Spike (3L05009-MS1)

Source: MMK0757-01

Prepared: 12/05/03 Analyzed: 12/06/03

Ethanol	274	100	ug/l	200	ND	137	31-186			
tert-Butyl alcohol	60.2	20	"	50.0	ND	120	0-206			
Methyl tert-butyl ether	10.8	0.50	"	10.0	0.090	107	63-137			
Di-isopropyl ether	10.1	0.50	"	10.0	ND	101	76-130			
Ethyl tert-butyl ether	10.3	0.50	"	10.0	ND	103	61-141			
tert-Amyl methyl ether	10.4	0.50	"	10.0	ND	104	56-140			
1,2-Dichloroethane	11.4	0.50	"	10.0	ND	114	77-126			
1,2-Dibromoethane (EDB)	10.4	0.50	"	10.0	ND	104	77-132			
Benzene	11.3	0.50	"	10.0	0.10	112	78-124			
Toluene	10.4	0.50	"	10.0	0.29	101	78-129			
Ethylbenzene	9.94	0.50	"	10.0	ND	99.4	84-117			
Xylenes (total)	29.1	0.50	"	30.0	ND	97.0	83-125			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.14		"	5.00		103	78-129			

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

URS Corporation [Arco]
500 12th Street, Suite 200
Oakland CA, 94607

Project: BP Heritage #11126, Emeryville, CA
Project Number: N/P
Project Manager: Leonard Niles

MMK0735
Reported:
12/11/03 11:48

**Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 3L05009 - EPA 5030B P/T

Matrix Spike Dup (3L05009-MSD1)	Source: MMK0757-01			Prepared: 12/05/03		Analyzed: 12/06/03				
Ethanol	229	100	ug/l	200	ND	114	31-186	17.9	37	
tert-Butyl alcohol	59.4	20	"	50.0	ND	119	0-206	1.34	22	
Methyl tert-butyl ether	10.8	0.50	"	10.0	0.090	107	63-137	0.00	13	
Di-isopropyl ether	9.92	0.50	"	10.0	ND	99.2	76-130	1.80	9	
Ethyl tert-butyl ether	10.2	0.50	"	10.0	ND	102	61-141	0.976	9	
tert-Amyl methyl ether	10.3	0.50	"	10.0	ND	103	56-140	0.966	12	
1,2-Dichloroethane	11.4	0.50	"	10.0	ND	114	77-126	0.00	13	
1,2-Dibromoethane (EDB)	10.3	0.50	"	10.0	ND	103	77-132	0.966	9	
Benzene	10.9	0.50	"	10.0	0.10	108	78-124	3.60	12	
Toluene	10.4	0.50	"	10.0	0.29	101	78-129	0.00	10	
Ethylbenzene	9.90	0.50	"	10.0	ND	99.0	84-117	0.403	10	
Xylenes (total)	29.1	0.50	"	30.0	ND	97.0	83-125	0.00	11	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	5.30		"	5.00		106	78-129			

URS Corporation [Arco]
500 12th Street, Suite 200
Oakland CA, 94607

Project: BP Heritage #11126, Emeryville, CA
Project Number: N/P
Project Manager: Leonard Niles

MMK0735
Reported:
12/11/03 11:48

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	--------------	----------------	-----	--------------	-------

Batch 3K24008 - General Prep

Blank (3K24008-BLK1)

Prepared & Analyzed: 11/24/03

Oil & Grease (HEM) ND 5.0 mg/l

Laboratory Control Sample (3K24008-BS1)

Prepared & Analyzed: 11/24/03

Oil & Grease (HEM) 18.7 5.0 mg/l 20.0 93.5 78-118

Laboratory Control Sample Dup (3K24008-BSD1)

Prepared & Analyzed: 11/24/03

Oil & Grease (HEM) 18.2 5.0 mg/l 20.0 91.0 78-118 2.71 18

URS Corporation [Arco]
500 12th Street, Suite 200
Oakland CA, 94607

Project: BP Heritage #11126, Emeryville, CA
Project Number: N/P
Project Manager: Leonard Niles

MMK0735
Reported:
12/11/03 11:48

Notes and Definitions

CF2 Confirmatory analysis was past holding time.

HC-12 Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

HT-04 This sample was analyzed beyond the EPA recommended holding time. The results may still be useful for their intended purpose.

HT-RA This sample was originally analyzed within the EPA recommended hold time. Re-analysis for confirmation or dilution was performed past the recommended hold time. The results may still be used for their intended purpose.

O-10 The result was reported with a possible low bias due to the continuing calibration verification falling outside the acceptance criteria.

O-12 The continuing calibration verification was outside of client contractual acceptance limits by 23.2% high. However, it was within method acceptance limits. The data should still be useful for its intended purpose.

O-12a The continuing calibration verification was outside of client contractual acceptance limits by 5.4 % high. However, it was within method acceptance limits. The data should still be useful for its intended purpose.

Q-LIM The percent recovery was outside of the control limits. The samples results may still be useful for their intended purpose.

QR-02 The RPD result exceeded the control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

S-04 The surrogate recovery for this sample is outside control limits due to interference from the sample matrix.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



Chain of Custody Record

Project Name 1126 GWM
 BP BU/GEM CO Portfolio Retail
 BP Laboratory Contract Number: Atlantic Richfield Company
 Requested Due Date (mm/dd/yy) 14 day TAT

MMK 0735

On-site Time: 830 Temp: 60
 Off-site Time: 1420 Temp: 78
 Sky Conditions: cloudy to clear
 Meteorological Events: none
 Wind Speed: 5mph Direction: NU

Date: 11/20/03

Send To:	BP/GEM Facility No.: <u>11126</u>	Consultant/Contractor: <u>URS</u>
Lab Name: <u>SEQUOIA</u>	BP/GEM Facility Address: <u>1700 POWELL ST., EMERYVILLE, CA</u>	Address: <u>500 12th St., Ste. 200</u>
Lab Address: <u>885 Jarvis Dr.</u>	Site ID No. <u>11126</u>	<u>Oakland, CA 94609-4014</u>
<u>Morgan Hill, CA 95037</u>	Site Lat/Long:	e-mail EDD: <u>donna.casper@URSCorp.com</u>
Lab PM: <u>Theresa Allen</u>	California Global ID #: <u>T0600100208</u>	Consultant/Contractor Project No.:
Tele/Fax: <u>408-776-9600 / 408-782-6308</u>	BP/GEM PM Contact: <u>PAUL SUPPLE</u>	Consultant Tele/Fax: <u>510-893-3600/510-874-3268</u>
Report Type & QC Level: <u>I Send EDF Reports</u>	Address: <u>P.O. Box 6549</u>	Consultant/Contractor PM: <u>Leonard Niles</u>
BP/GEM Account No.: <u>400-6-21124</u>	<u>Moraga, CA 94570</u>	Invoice to: Consultant/Contractor of <u>BP/GEM</u> (Circle one)
	Tele/Fax: <u>925-299-8891/925-299-8872</u>	BP/GEM Work Release No.:

Item No.	Sample Description	Time	Matrix			Laboratory No.	No. of containers	Preservatives			Requested Analysis							Sample Point Lat/Long and Comments	
			Sol/Solid	Water/Liquid	Sediments			Air	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	TPH-G/BTEX (8015/8021) X(260)	TPH-D (8015)	MTBE (8021)	MTBE (8250)	MTBE, TAME, ETBE DIBP, TBA (8260)		1,2-DCA & EDB (8260)
1	MW-1	1300	X			01	3			X				X		X			
2	MW-2	1315	X			02	3			X				X		X			
3	MW-3	1105	X			03	7	X		X	X			X		X	X		
4	MW-4	1238	X			04	3			X				X		X			
5	MW-5	1010	X			05	3			X				X		X			
6	MW-6	1030	X			06	3			X				X		X			
7	MW-7	1158	X			07	3			X				X		X			
8	MW-8	1138	X			08	3			X				X		X			
9	MW-9	1400	X			09	3			X				X		X			
10	TR-112611202003		X			10	2			X									on Hold

Sampler's Name: <u>P. Cornish</u>	Relinquished By / Affiliation: <u>PJA-UM</u>	Date: <u>11/21</u>	Time: <u>17:55</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date: <u>11/21</u>	Time: <u>17:55</u>
Sampler's Company: <u>Blaine Tech</u>						
Shipment Date: <u>11/20/03</u>						
Shipment Method:						
Shipment Tracking No.:						

Instructions: Address Invoice to BP/GEM but send to URS for approval

Seals In Place Yes No Temperature Blank Yes No Cooler Temperature on Receipt 4°C Trip Blank Yes No

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: BS
 REC. BY (PRINT): JLK
 WORKORDER: MMK0735

DATE REC'D AT LAB: 11/21/03
 TIME REC'D AT LAB: 17:55
 DATE LOGGED IN: 11-22-03

DRINKING WATER for
 regulatory purposes: YES NO
 WASTE WATER for
 regulatory purposes: YES NO

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / <input checked="" type="checkbox"/> Absent Intact / Broken*				MW-1	(3) vials	HCL	L	11/20/03	
2. Chain-of-Custody <input checked="" type="checkbox"/> Present / Absent*				↓ 2	↓				
3. Traffic Reports or Packing List: Present / <input checked="" type="checkbox"/> Absent				MW-↓	(4) Labels				
4. Airbill: Airbill / Sticker Present / <input checked="" type="checkbox"/> Absent				↓ 4	(3) vials				
5. Airbill #:				↓ 5					
6. Sample Labels: <input checked="" type="checkbox"/> Present / Absent				↓ 6					
7. Sample IDs: <input checked="" type="checkbox"/> Listed / Not Listed on Chain-of-Custody				↓ 7					
8. Sample Condition: <input checked="" type="checkbox"/> Intact / Broken* / Leaking*				↓ 8					
9. Does information on chain-of-custody, traffic reports and sample labels agree? <input checked="" type="checkbox"/> Yes / No*				↓ 9					
10. Sample received within hold time: <input checked="" type="checkbox"/> Yes / No*									
11. Adequate sample volume received? <input checked="" type="checkbox"/> Yes / No*									
12. Proper Preservatives used: <input checked="" type="checkbox"/> Yes / No*									
13. Temp Rec. at Lab: is temp 4 +/- 2°C? <input checked="" type="checkbox"/> Yes / No*									
(Acceptance range for samples requiring thermal pres.)									
**Exception (if any): METALS / OFF ON ICE or Problem COC									

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.



Memorandum

Date: December 18, 2003

To: Mr. Kimball R. Loeb - Envirosolve, Inc.

From: Mr. Thomas M. Roberts III - Environmental Standards, Inc.

cc: Mr. Rock J. Vitale, CEAC, CPC - Environmental Standards, Inc.
Mr. David R. White - Envirosolve, Inc.

Subject: Investigation of the Positive Result for Ethanol in Sample MW-1, Collected on November 20, 2003, for the BP Heritage #11126 Emeryville, California Site

Environmental Standards is conducting an ongoing investigation of positive sample results for ethanol in BP project samples. This memo provides a comprehensive assessment of the evaluation of the reported positive result for ethanol in sample MW-1, collected on November 20, 2003, at the BP Heritage #11126 Emeryville, California, site. This assessment is based on an electronic review of the Enviroquant[®] files associated with the analysis of this sample (received by Environmental Standards on December 16, 2003).

As per the Laboratory Analysis Flow Responsibilities chart (7/18/03 Rev. 4 – FINAL), Sequoia Analytical Laboratories (SAL) was requested to submit the electronic data for any samples with reported positive results for ethanol, including all associated calibration files, quality control (QC) sample files, files for sample analyses preceding the positive result, and files for all associated blank analyses (*i.e.*, method, instrument, field, trip, holding, *etc.*), to Environmental Standards. Upon receipt of these data, the Environmental Standards data reviewers reviewed the data files to ensure that all requested data files had been provided. The findings offered in this assessment are based on a review of the blank analysis results, calibrations, the quantitation of positive results, carryover contamination from previous sample analyses, and a critical evaluation of instrumental raw data.

The positive result for ethanol in sample MW-1 (lab sample ID MMK0735-01) was reported at an instrument level concentration of 181.89 $\mu\text{g/L}$ (result reported as 1800 $\mu\text{g/L}$ based on a dilution factor of 10). This sample was reanalyzed on a separate instrument and the positive result for ethanol was confirmed. The reanalysis yielded a reported instrument level concentration of 181.15 $\mu\text{g/L}$.

Positive results for ethanol were not observed in any associated instrument blank, method blank, or trip blank; therefore, qualification of the data due to blank contamination was not warranted.

The sample analyzed immediately before sample MW-1 was evaluated and the data reviewers determined that carryover contamination was not a factor relative to the validity of the positive result for ethanol in Sample MW-1. The initial analysis of sample MW-1 was preceded by the

analysis of the associated trip blank. A positive result for ethanol was not observed in this trip blank.

In conclusion, the reported positive result for ethanol in sample MW-1 was confirmed per the flow chart; however, potential sources of contamination could not be evaluated because field, trip, and equipment blank data were not provided.

ATTACHMENT D

EDCC REPORT AND EDF/GEOWELL SUBMITTAL CONFIRMATION

Error Summary Log

12/31/03

EDF 1.2i All files present in deliverable.

Laboratory:	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
Project Name:	BP Heritage #11126, Emery
Work Order Number:	MMK0735
Global ID:	T0600100208
Lab Report Number:	MMK0735121120031259

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run	Sub
MMK07351211200	MW-1	MMK073501	W	CS	8260TPH	SW5030B	11/20/03	12/04/03	12/04/03	3L04005	1	
31259												
MMK07351211200	MW-1	MMK073501R1	W	CS	8260TPH	SW5030B	11/20/03	12/05/03	12/05/03	3L05009	1	
31259												
MMK07351211200	MW-2	MMK073502	W	CS	8260TPH	SW5030B	11/20/03	12/04/03	12/04/03	3L04005	1	
31259												
MMK07351211200	MW-3	MMK073503	W	CS	8260TPH	SW5030B	11/20/03	12/04/03	12/04/03	3L04005	1	
31259												
MMK07351211200	MW-3	MMK073503	W	CS	E1664A	METHOD	11/20/03	11/24/03	11/26/03	3K24008	1	
31259												
MMK07351211200	MW-3	MMK073503	W	CS	SW8015B	SW3510C	11/20/03	11/26/03	12/06/03	3K26025	1	
31259												
MMK07351211200	MW-4	MMK073504	W	CS	8260TPH	SW5030B	11/20/03	12/04/03	12/04/03	3L04005	1	
31259												
MMK07351211200	MW-5	MMK073505	W	CS	8260TPH	SW5030B	11/20/03	12/04/03	12/04/03	3L04005	1	
31259												
MMK07351211200	MW-6	MMK073506	W	CS	8260TPH	SW5030B	11/20/03	12/04/03	12/04/03	3L04005	1	
31259												
MMK07351211200	MW-7	MMK073507	W	CS	8260TPH	SW5030B	11/20/03	12/04/03	12/04/03	3L04009	1	
31259												
MMK07351211200	MW-8	MMK073508	W	CS	8260TPH	SW5030B	11/20/03	12/04/03	12/04/03	3L04009	1	
31259												
MMK07351211200	MW-9	MMK073509	W	CS	8260TPH	SW5030B	11/20/03	12/04/03	12/04/03	3L04009	1	
31259												
MMK07351211200	TB-1112611202003	MMK073510	W	CS	8260TPH	SW5030B	11/20/03	12/05/03	12/05/03	3L05009	1	
31259												
		MMK075701	W	NC	8260TPH	SW5030B	//	12/05/03	12/06/03	3L05009	1	
		MML011101	W	NC	8260TPH	SW5030B	//	12/04/03	12/05/03	3L04005	1	
		3K24008BSD1	WQ	BD1	E1664A	METHOD	//	11/24/03	11/24/03	3K24008	1	
		3K24008BS1	WQ	BS1	E1664A	METHOD	//	11/24/03	11/24/03	3K24008	1	
		3K24008BLK1	WQ	LB1	E1664A	METHOD	//	11/24/03	11/24/03	3K24008	1	
		3K26025BSD1	WQ	BD1	SW8015B	SW3510C	//	11/26/03	12/05/03	3K26025	1	
		3K26025BS1	WQ	BS1	SW8015B	SW3510C	//	11/26/03	12/05/03	3K26025	1	
		3K26025BLK1	WQ	LB1	SW8015B	SW3510C	//	11/26/03	12/05/03	3K26025	1	
		3L04005BSD1	WQ	BD1	8260TPH	SW5030B	//	12/04/03	12/05/03	3L04005	1	
		3L04005BSD2	WQ	BD2	8260TPH	SW5030B	//	12/04/03	12/05/03	3L04005	1	
		3L04005BS1	WQ	BS1	8260TPH	SW5030B	//	12/04/03	12/04/03	3L04005	1	
		3L04005BS2	WQ	BS2	8260TPH	SW5030B	//	12/04/03	12/04/03	3L04005	1	

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctf	Run Sub
		3L04005BLK1	WQ	LB1	8260TPH	SW5030B	//	12/04/03	12/04/03	3L04005	1
		3L04005MS1	W	MS1	8260TPH	SW5030B	//	12/04/03	12/05/03	3L04005	1
		3L04005MSD1	W	SD1	8260TPH	SW5030B	//	12/04/03	12/05/03	3L04005	1
		3L04009BSD1	WQ	BD1	8260TPH	SW5030B	//	12/04/03	12/04/03	3L04009	1
		3L04009BSD2	WQ	BD2	8260TPH	SW5030B	//	12/04/03	12/04/03	3L04009	1
		3L04009BS1	WQ	BS1	8260TPH	SW5030B	//	12/04/03	12/04/03	3L04009	1
		3L04009BS2	WQ	BS2	8260TPH	SW5030B	//	12/04/03	12/04/03	3L04009	1
		3L04009BLK1	WQ	LB1	8260TPH	SW5030B	//	12/04/03	12/04/03	3L04009	1
		3L05009BSD1	WQ	BD1	8260TPH	SW5030B	//	12/05/03	12/06/03	3L05009	1
		3L05009BSD2	WQ	BD2	8260TPH	SW5030B	//	12/05/03	12/06/03	3L05009	1
		3L05009BS1	WQ	BS1	8260TPH	SW5030B	//	12/05/03	12/05/03	3L05009	1
		3L05009BS2	WQ	BS2	8260TPH	SW5030B	//	12/05/03	12/05/03	3L05009	1
		3L05009BLK1	WQ	LB1	8260TPH	SW5030B	//	12/05/03	12/05/03	3L05009	1
		3L05009MS1	W	MS1	8260TPH	SW5030B	//	12/05/03	12/06/03	3L05009	1
		3L05009MSD1	W	SD1	8260TPH	SW5030B	//	12/05/03	12/06/03	3L05009	1

EDFSAMP: Error Summary Log

12/31/03

Error type	Logcode	Projname	Npdiwo	Sampid	Matrix
There are no errors in this data file					

EDFTEST: Error Summary Log

12/31/03

Error type	Labsampid	Qccode	Anmcode	Exmcode	Anadate	Run number
There are no errors in this data file					//	0

EDFRES: Error Summary Log

12/31/03

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	MMK073503	CS	W	E1664A	PR	11/26/03	1	OILGREASE
Warning: extra parameter	MMK073503	CS	W	SW8015B	PR	12/06/03	1	630-02-4
Warning: extra parameter	MMK073503	CS	W	SW8015B	PR	12/06/03	1	DROC10C28
Warning: extra parameter	3K24008BLK1	LB1	WQ	E1664A	PR	11/24/03	1	OILGREASE
Warning: extra parameter	3K24008BS1	BS1	WQ	E1664A	PR	11/24/03	1	OILGREASE
Warning: extra parameter	3K24008BSD1	BD1	WQ	E1664A	PR	11/24/03	1	OILGREASE
Warning: extra parameter	3K26025BLK1	LB1	WQ	SW8015B	PR	12/05/03	1	630-02-4
Warning: extra parameter	3K26025BLK1	LB1	WQ	SW8015B	PR	12/05/03	1	DROC10C28
Warning: extra parameter	3K26025BS1	BS1	WQ	SW8015B	PR	12/05/03	1	630-02-4
Warning: extra parameter	3K26025BS1	BS1	WQ	SW8015B	PR	12/05/03	1	DROC10C28
Warning: extra parameter	3K26025BSD1	BD1	WQ	SW8015B	PR	12/05/03	1	630-02-4
Warning: extra parameter	3K26025BSD1	BD1	WQ	SW8015B	PR	12/05/03	1	DROC10C28
Error: LNOTE has an invalid note	MMK073501	CS	W	8260TPH	PR	12/04/03	1	ETHANOL

EDFQC: Error Summary Log

12/31/03

Error type	Lablotcti	Anmcode	Parlabel	Qccode	Labqcid
There are no errors in this data files					

EDFCL: Error Summary Log

12/31/03

Error type	Crevdate	Anmcode	Exmcode	Parlabel	Cicode
There are no errors in this data file	//				

AB2886 Electronic Delivery

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

Your EDF file has been successfully uploaded!

Confirmation Number: 9262081921

Date/Time of Submittal: 12/31/2003 12:53:47 PM

Facility Global ID: T0600100208

Facility Name: BP MOBIL

Submittal Title: Fourth Quarter 2003 GW Monitoring Rprt for Site 11126

Submittal Type: GW Monitoring Report

Logged in as URSCORP-OAKLAND (CONTRACTOR)

CONTACT SITE [ADMINISTRATOR](#).

AB2886 Electronic Delivery

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

UPLOADING A GEO_WELL FILE

Processing is complete. No errors were found!
Your file has been successfully submitted!

Submittal Title: Fourth Quarter 2003 Site 11126 Geowell
Submittal

Submittal Date/Time: 12/31/2003 12:55:12 PM

Confirmation
Number: 6485813736

[Back to Main Menu](#)

Logged in as URSCORP-OAKLAND (CONTRACTOR)

[CONTACT SITE ADMINISTRATOR.](#)